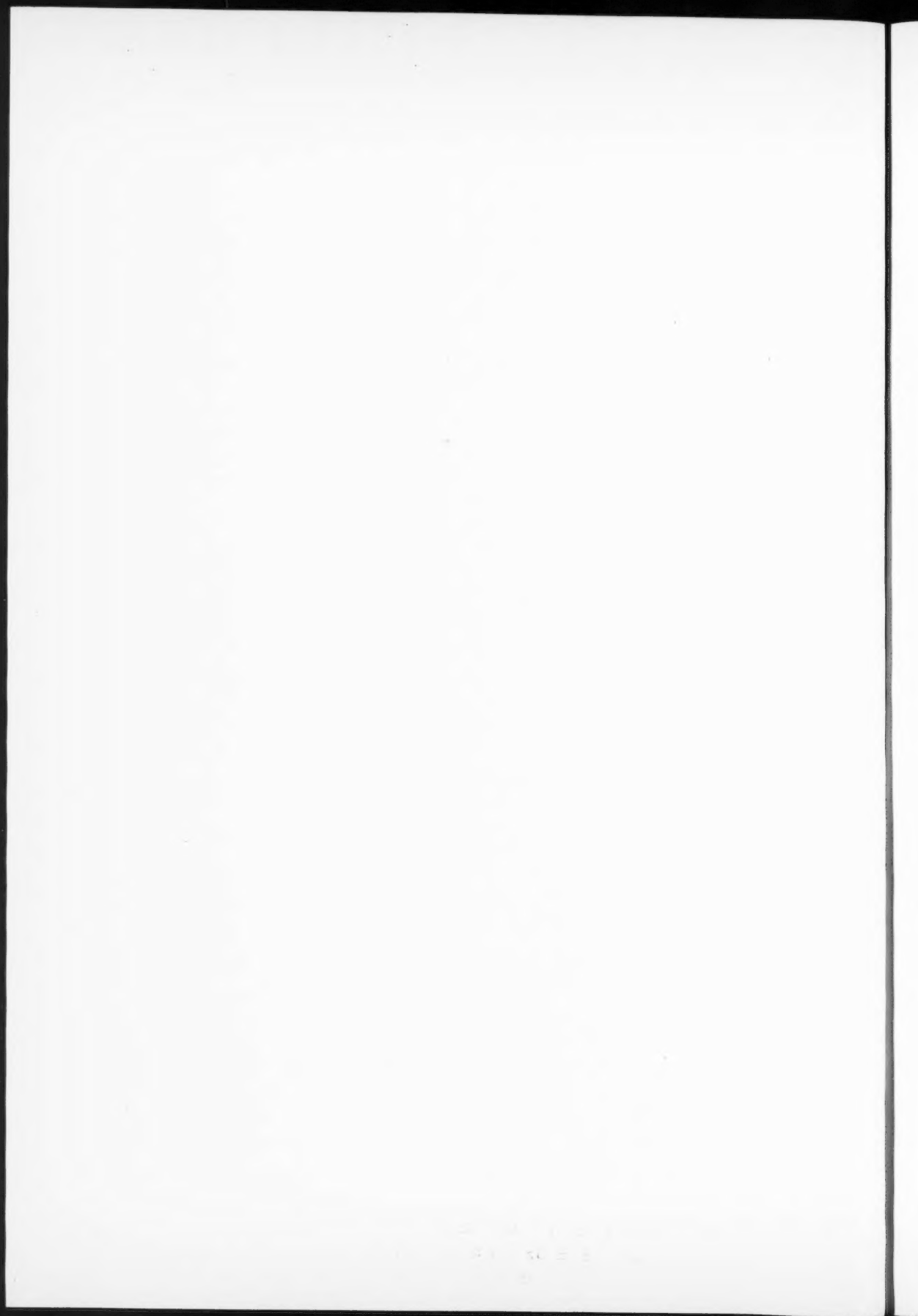

CIRCULATION

The Journal of the American Heart Association

VOLUME VI
July-December, 1952



GRUNE & STRATTON, INC.
NEW YORK



VOLUME VI

July-December, 1952

CIRCULATION

The Journal of the American Heart Association

No. 1

- Thrombo-embolism in Acute and in Healed Myocardial Infarction. I. Intracardiac Mural Thrombosis
Robert A. Jordan, R. Drew Miller, Jesse E. Edwards and Robert L. Parker 1
- Thrombo-embolism in Acute and in Healed Myocardial Infarction. II. Systemic and Pulmonary Arterial Occlusion
R. Drew Miller, Robert A. Jordan, Robert L. Parker and Jesse E. Edwards 7
- The Effect of Arterialization of the Coronary Sinus in Dogs on Mortality following Acute Coronary Occlusion
R. W. Eckstein, George Smith, Morton Eleff and James Demming 16
- Graphic Representation of Electrocardiographic Leads by Means of Fluid Mappers
Richard McFee, Robert M. Stow and Franklin D. Johnston 21
- Orthostatic Hypotension, Anhidrosis and Impotence
Marvin Rosecan, Robert J. Glaser and Melvin L. Goldman 30
- The Effect of Procaine Amide (Pronestyl) in Clinical Auricular Fibrillation and Flutter
G. Miller, S. L. Weinberg and A. Pick 41
- Neurohemodynamics of Pulmonary Edema. II. The Role of Sympathetic Pathways in the Elevation of Pulmonary and Systemic Vascular Pressures following the Intracisternal Injection of Fibrin.*Stanley J. Sarnoff and L. Charlotte Sarnoff* 51
- Graded Reduction of Arterial Pressure in Man by Means of a Thiophanium Derivative (Ro 2-2222). Preliminary Observations on Its Effect in Acute Pulmonary Edema
Stanley J. Sarnoff, Walter T. Goodale and L. Charlotte Sarnoff 63
- On Certain Abnormal Ballistic Complexes: Their Relationships to Other Mechanical and Electrical Events of the Cardiac Cycle
Peter T. Kuo, Truman G. Schnabel, Jr. and Calvin F. Kay 74
- The Effect of Mercurial Diuretics on the Excretion of Water
J. N. Capps, W. S. Wiggins, D. R. Axelrod and R. F. Pitts 82
- The Circulatory Effects of Roniacol. A Physiologic Study in Normal Man
G. S. Roback and A. C. Ivy 90
- The Atrial Border Elektokymogram in Mitral Regurgitation
Louis A. Soloff, Jacob Zatuchni and Herbert M. Stauffer 96
- Effect of Cholesterol Feeding during Pregnancy on Blood Cholesterol Levels and Placental Vascular Lesions
Campbell Moses, Grace L. Rhodes, Evelyn Leatham and Robert S. George 103
- The Use of an Oximetrically Determined Circulation Time from the Right Ventricle to the Ear in Congenital Heart Disease
Richard P. Lasser, Alvin J. Gordon, Raymond Borun and Frederick H. King 106
- Patent Ductus Arteriosus in the Absence of a Continuous Murmur
J. Francis Dammann, Jr. and C. Gordon R. Sell 110

Studies on the Use of Dioxyline Phosphate in the Treatment of Angina Pectoris <i>Ralph C. Scott, Vincent J. Seiwert, Noble O. Fowler, Jr. and Johnson McGuire</i>	125
Clinical Progress: Sympathectomy for Essential Hypertension. <i>Edgar V. Allen</i>	131
Abstracts.	141
American Heart Association.	156

No. 2

Studies on the Spread of Excitation through the Ventricular Myocardium. II. The Ventricular Septum. <i>Howard B. Burchell, Hiram E. Essex and Raymond D. Pruitt</i>	161
Effects of Cardiac Glycosides upon the Electrical Activity of Single Ventricular Fibers of the Frog Heart, and Their Relation to the Digitalis Effect of the Electrocardiogram. <i>Lowell A. Woodbury and Hans H. Hecht</i>	172
Studies of Electrocardiographic Changes during Exercise (Modified Double Two-Step Test). <i>Paul N. G. Yu and Alfred Soffer</i>	183
Transient Ventricular Fibrillation. IV. The Effects of Procaine Amide on Patients with Transient Ventricular Fibrillation during Established Auriculoventricular Dissociation. <i>Sidney P. Schwartz, Leonard Hallinger and Anthony Imperilli</i>	193
The Distribution of Cardiac Potentials around the Chest in One Hundred and Three Normal Men. <i>Ernst Simonson</i>	201
Clinical Studies on Veratrum Alkaloids. II. The Dose-Response Relations of Protoberatrine in Hypertension. <i>Edward Meilman and Otto Krayner</i>	212
The Lewis A. Conner Memorial Lecture. The Heart and the Thyroid: With Particular Reference to I ¹³¹ Treatment of Heart Disease <i>Herrman L. Blumgart and A. Stone Freedberg</i>	222
The Action of Norepinephrine, Epinephrine and Isopropyl Norepinephrine on the Rhythmic Function of the Heart. <i>Morris H. Nathanson and Harold Miller</i>	238
Hypersensitivity to Mercurhydrin. <i>John F. Whitman and William L. Proudfit</i>	245
Paradoxic Action of Amyl Nitrite in Coronary Patients <i>Stephen Contro, Olga M. Haring and Walter Goldstein</i>	250
Acceleration of Blood Coagulation in Acute Myocardial Infarction as Demonstrated by the Heparin Clotting Time; Effect of Dicumarol Therapy <i>Robert L. Rosenthal and John C. Weaver</i>	257
Further Studies on the Effect of Arteriovenous Fistulas and Elevation of Sinus Pressure on Mortality Rates Following Acute Coronary Occlusions <i>George Smith, James Demming, Morton Eleff and Richard W. Eckstein</i>	262
Further Observations of Penicillin-Treated Cardiovascular Syphilis <i>Joseph Edeiken, William T. Ford, Mortimer S. Falk and John H. Stokes</i>	267
The Inhibition of Coronary Atherosclerosis by Estrogens in Cholesterol-Fed Chicks <i>R. Pick, J. Stamler, S. Rodbard and L. N. Katz</i>	276
The Blood Flow through the Calf of the Leg during Acute Occlusion of the Femoral Artery and Vein. <i>John T. Shepherd</i>	281
Clinical Progress. Hypertension and the Problem of Vascular Homeostasis <i>Irvine H. Page and A. C. Corcoran</i>	286
Abstracts.	293
Book Reviews.	313
American Heart Association.	316

No. 3

Results of the Surgical Treatment for Mitral Stenosis. Analysis of One Hundred Consecutive Cases. <i>O. Henry Janton, Robert P. Glover, Thomas J. E. O'Neill, John E. Gregory and Gregory F. Froio</i>	321
--	-----

The Pathogenesis of Spontaneous Cardiac Rupture <i>Stanford Wessler, Paul M. Zoll and Monroe J. Schlesinger</i>	334
The Action of SKF 688A (Phenoxyethyl Derivative of Dibenamine) upon Certain Functions of the Sympathetic Nervous System in Man <i>Walter Redisch, E. Clinton Texter, Jr., Royal M. Howard, Paul H. Stillman and J. Murray Steele</i>	352
Observations on the Fate of Ingested Cholesterol in Man..... <i>M. W. Biggs, D. Kritchevsky, D. Colman, J. W. Gofman, H. B. Jones, F. T. Lindgren, G. Hyde and T. P. Lyon</i>	359
Deposition and Disappearance of Digitoxin from the Tissues of the Rat, Rabbit, and Dog after Parenteral Injection..... <i>Meyer Friedman, Shirley St. George, René Bine, Jr., Sanford O. Byers and Catharine Bland</i>	367
Correlation of Serum Potassium Concentrations with the Blood Pressure in Rats Fed a Potassium-Deficient Ration <i>Shirley M. St. George, S. Charles Freed and Ray H. Rosenman</i>	371
Pressor Effects of Epinephrine, Norepinephrine and Desoxycorticosterone Acetate (DCA) Weakened by Sodium Withdrawal <i>W. Raab, R. J. Humphreys, N. Makous, R. DeGrandpré and W. Giguee</i>	373
The Measurement of the Q-T Interval of the Electrocardiogram <i>Eugene Lepeschkin and Borys Surawicz</i>	378
The Nickerson Ballistocardiogram in Arteriosclerotic Heart Disease with and without Congestive Failure..... <i>Richard J. Jones</i>	389
The Ballistocardiogram in Myocardial Infarction: A Study of One Hundred Cases <i>Marvin Moser, Leon Pordy, Kenneth Chesky, Robert C. Taymor and Arthur M. Master</i>	402
The Ballistocardiogram in a Free Clinic <i>Johnson McGuire, Gisela Herwitz and John R. Braunstein</i>	408
Surgical Treatment of Coarctation of the Aorta in a Ten Week Old Infant: Report of a Case..... <i>John W. Kirklin, Howard B. Burchell, David G. Pugh, Edmund C. Burke and Stephen D. Mills</i>	411
The Origin of the Variations of Body Impedance Occurring during the Cardiac Cycle <i>F. H. Bonjer, Jw. van den Berg and M. N. J. Dirken</i>	415
Clinical Progress: Traumatic Heart Disease. Nonpenetrating Injuries. <i>R. W. Kissane</i>	421
Abstracts.....	426
American Heart Association.....	445
Program and Proceedings of the Sixth Annual Meeting of the American Society for the Study of Arteriosclerosis.....	450

No. 4

Histogenesis of Coronary Arteriosclerosis.. <i>Henry D. Moon and James F. Rinehart</i>	481
A Comparative Evaluation of Tromexan and Dicumarol in the Treatment of Thromboembolic Conditions—Based on Experience with 514 Patients. A Report of the Committee on Anticoagulants of the American Heart Association <i>Louis A. Scarrone, Dorothy Fahs Beck and Irving S. Wright</i>	489
Clinical Use of the Anticoagulant Phenylindanedione. Report of 74 Cases <i>Frederick W. Preston, William R. O'Connor, Charles E. Thompson and Eldis N. Christensen</i>	515
An Evaluation of the Ability of Priscoline, Regitine, and Roniacol to Overcome Vaso-spasm in Normal Man. Estimation of the Probable Clinical Efficacy of These Drugs in Vasospastic Peripheral Vascular Disease <i>Harold D. Green, W. Kenneth Gobel, Michael J. Moore and Thomas C. Prince</i>	520

Aconitine-Induced Auricular Arrhythmias and Their Relation to Circus-Movement Flutter.....	Barbara B. Brown and George H. Acheson	529
The Clinical Significance of Postextrasystolic T-Wave Changes	Harold D. Levine, Bernard Lown and Richard B. Streeper	538
Clinical Characteristics of Hypertension Associated with Unilateral Renal Disease	George A. Perera and Arthur W. Haeig	549
Respiratory Variations in Blood Pressure	A. C. Dornhorst, P. Howard and G. L. Leathart	553
Studies of Hemodynamic Changes in Humans Following Induction of Low and High Spinal Anesthesia. I. General Considerations of the Problem. The Changes in Cardiac Output, Brachial Arterial Pressure, Peripheral and Pulmonary Oxygen Contents and Peripheral Blood Flows Induced by Spinal Anesthesia in Humans not Undergoing Surgery	Salvatore M. Sancetta, R. Beverley Lynn, Fiorindo A. Simeone and Roy W. Scott	559
The Determination of Cardiac Output by a Continuous Recording System Utilizing Iodinated (I^{131}) Human Serum Albumin. II. Clinical Studies	Walter H. Pritchard, William J. MacIntyre, William C. Schmidt, Bernard L. Brofman and Douglas J. Moore	572
Studies Utilizing the Portable Electromagnetic Ballistocardiograph. III. The Ballistocardiogram in Bundle Branch Block	Harry Mandelbaum and Robert A. Mandelbaum	578
Relationship between Ballistocardiographic Forces and Certain Events in the Cardiac Cycle.....	Oscar Tannenbaum, Jerome A. Schack and Harry Vesell	586
Massive Infarction of the Right Ventricle and Atrium. Report of a Case	Earl A. Zaus and Walter M. Kearns, Jr.	593
Clinical Progress. The Pathogenesis of Malignant Hypertension..	G. W. Pickering	599
Abstracts.....		613
Books Received.....		636
American Heart Association.....		639

No. 5

Frank Norman Wilson.....		641
The George E. Brown Memorial Lecture. Physiologic Considerations Concerned with the Pathogenesis and Treatment of Obstructive Vascular Disease..	Isaac Starr	643
Role of the Liver in Excretion and Destruction of Digitoxin	Shirley St. George, René Bine, Jr., and Meyer Friedman	661
Respiratory Burns with Special Reference to Pulmonary Edema and Congestion	Domingo M. Aviado, Jr., and Carl F. Schmidt	666
Induced Hypercholesterolemia and Atherogenesis..	Irvine H. Page and Helen B. Brown	681
Hemodynamic Studies in Rheumatic Heart Disease	M. Irené Ferrer, Réjane M. Harvey, Richard T. Cathcart, André Cournand and Dickinson W. Richards, Jr.	688
The Mechanism and Incidence of Cardiovascular Changes in Paget's Disease (Osteitis Deformans). A Critical Review of the Literature with Case Studies	C. Franklin Sornberger and Magnus I. Smedal	711
Measurement of Arterioles in Coarctation of the Aorta	Robert C. Painter, Edgar A. Hines, Jr., and Jesse E. Edwards	727
Factors in the Production of Coronary Artery Disease.....	J. C. Paterson	732
Oximetry in Congenital Heart Disease with Special Reference to the Effects of Voluntary Hyperventilation.....	B. van Lingen and Joanna Whidborne	740
The Effect of Age and Body Weight on the Electrocardiogram of Healthy Men	Ernst Simonson and Ancel Keys	749

Myxoma of the Left Atrium. Diagnosis Made during Life with Operative and Post-mortem Findings	
<i>Henry P. Goldberg, Frank Glenn, Charles T. Dotter and Israel Steinberg</i>	762
Clinical Progress: Pulmonary Embolism	<i>Louis Wolff</i> 768
Abstracts	777
Book Reviews	796
American Heart Association	799

No. 6

The Clinical Diagnosis of Anomalous Pulmonary Venous Drainage	
<i>H. A. Snellen and F. H. Albers</i>	801
The Diagnosis of Congenital Subaortic Stenosis. Application of Hemodynamic Principles	<i>Bernard L. Brofman and Harold Feil</i> 817
Studies of the Mitral Valve. I. Anatomic Features of the Normal Mitral Valve and Associated Structures	<i>Ian E. Rusted, Charles H. Scheifley and Jesse E. Edwards</i> 825
The Effects of Vasomotor Drugs and of Anemia upon Interarterial Coronary Anastomoses	<i>Paul M. Zoll and Leona R. Norman</i> 832
Encephalomyocarditis	<i>Otto Saphir</i> 843
The Intestinal Excretion of Digitoxin in the Rat	<i>Shirley St. George and Meyer Friedman</i> 851
The Renal Excretion of Digitoxin in the Acute and Chronic Cardiac Patient	
<i>Meyer Friedman, Shirley St. George, René Bine, Jr., and Sanford O. Byers</i>	853
Estrogen-Induced Regression of Coronary Atherosclerosis in Cholesterol-Fed Chicks	<i>Ruth Pick, Jeremiah Stamler, Simon Rodbard and Louis N. Katz</i> 858
Skin Temperature Response of Normal Human Subjects to Various Conditions	<i>Walter Redisch, Edward Sheckman and J. Murray Steele</i> 862
Mitral Stenosis with Exertional Cyanosis and Pulmonary Hemosiderosis	<i>James A. Wier, Amo J. Piccoli, David G. Greene and Clayton W. Greene</i> 868
Chronic Lung Disease, Polycythemia and Congestive Heart Failure. Cardiorespiratory, Vascular and Renal Adjustments in Cor Pulmonale	<i>Ceylon S. Lewis, Jr., Arthur J. Samuels, Merril C. Daines and Hans H. Hecht</i> 874
The Cardiac Output in Chronic Cor Pulmonale	<i>Noble O. Fowler, Richard N. Westcott, Ralph C. Scott and Emily Hess</i> 888
Studies of Hemodynamic Changes in Humans Following Induction of Low and High Spinal Anesthesia. II. The Changes in Splanchnic Blood Flow, Oxygen Extraction and Consumption, and Splanchnic Vascular Resistance in Humans not Undergoing Surgery	<i>Richard P. Mueller, R. Beverley Lynn, and Salvatore M. Sancetia</i> 894
Studies on Acute and Chronic Toxicity of Tetraethyl Ammonium Ion (Etamon). Methods of Reviving Dogs after a Lethal Dose	<i>Julian F. Keith, Jr., Harold D. Green, S. Clay Williams and Cornelius C. Davis</i> 902
Further Studies on the Effects of Changes in the Distribution of Extracellular Fluid on Sodium Excretion. Observations Following Compression of the Legs	<i>John A. Lusk, William N. Viar and Tinsley R. Harrison</i> 911
The Relation of Water and Sodium Excretion to Blood Pressure in Human Subjects	<i>D. M. Green, H. G. Wedell, M. H. Wald and B. Larned</i> 919
Increased Urinary Urobilinogen Following Acute Myocardial Infarction	<i>John M. Evans, Orlyn H. Wood and Eleanor M. Brew</i> 925
Clinical Progress. Diagnosis and Management of Common Malformations of the Heart	<i>Helen B. Taussig</i> 930
Abstracts	941
American Heart Association	959

INDEX OF AUTHORS

Acheson, G. H., 529
 Albers, F. H., 801
 Allen, E. V., 131
 Aviado, D. M., Jr., 666
 Axelrod, D. R., 82

Beck, D. F., 489
 Biggs, M. W., 359
 Bine, R., Jr., 367, 661, 853
 Bland, C., 367
 Blumgart, H. L., 222
 Bonjer, F. H., 415
 Borun, R., 106
 Braunstein, J. R., 408
 Brew, E. M., 925
 Brofman, B. L., 572, 817
 Brown, B. B., 529
 Brown, H. B., 681
 Burchell, H. B., 161, 411
 Burke, E. C., 411
 Byers, S. O., 367, 853

Capps, J. N., 82
 Cathcart, R. T., 688
 Chesky, K., 402
 Christensen, E. N., 515
 Colman, D., 359
 Contro, S., 250
 Corcoran, A. C., 286
 Courmand, A., 688

Daines, M. C., 874
 Dammann, J. F., Jr., 110
 Davis, C. C., 902
 DeGrandpré, R., 373
 Demming, J., 16, 262
 Dirken, M. N. J., 415
 Dornhorst, A. C., 553
 Dotter, C. T., 762

Eckstein, R. W., 16, 262
 Edeiken, J., 267
 Edwards, J. E., 1, 7, 727, 825
 Eleff, M., 16, 262
 Essex, H. E., 161
 Evans, J. M., 925

Falk, M. S., 267
 Feil, H., 817
 Ferrer, I., 688
 Ford, W. T., 267
 Fowler, N. O., Jr., 125, 888
 Freed, S. C., 371
 Freedberg, A. S., 222
 Friedman, M., 367, 661, 851, 853
 Froio, G. F., 321

George, R. S., 103
 Gigue, W., 373
 Glaser, R. J., 30
 Glenn, F., 762
 Glover, R. P., 321
 Gobel, W. K., 520
 Gofman, J. W., 359
 Goldberg, H. P., 762
 Goldman, M. L., 30
 Goldstein, W., 250
 Goodale, W. T., 63
 Gordon, A. J., 106
 Green, D. M., 919

Green, H. D., 520, 902
 Greene, C. W., 868
 Greene, D. G., 868
 Gregory, J. E., 321

Haelig, A. W., 549
 Hallinger, L., 193
 Haring, O. M., 250
 Harrison, T. R., 911
 Harvey, R. M., 688
 Hecht, H. H., 172, 874
 Herwitz, G., 408
 Hess, E., 888
 Hines, E. A., Jr., 727
 Howard, P., 553
 Howard, R. M., 352
 Humphreys, R. J., 373
 Hyde, G., 359

Imperialli, A., 193
 Ivy, A. C., 90

Janton, O. H., 321
 Johnston, F. D., 21
 Jones, H. B., 359
 Jones, R. J., 389
 Jordan, R. A., 1, 7

Katz, L. N., 276, 858
 Kay, C. F., 74
 Kearns, W. M., Jr., 593
 Keith, J. F., Jr., 902
 Keys, A., 749
 King, F. H., 106
 Kirklin, J. W., 411
 Kissane, R. W., 421
 Krayner, O., 212
 Kritechsky, D., 359
 Kuo, P. T., 74

Lasser, R. P., 106
 Learned, B., 919
 Leatham, E., 103
 Leathart, G. L., 553
 Lepeschkin, E., 378
 Levine, H. D., 538
 Lewis, C. S., Jr., 874
 Lown, B., 538
 Lindgren, F. T., 359
 Lusk, J. A., 911
 Lynn, R. B., 559, 894
 Lyon, T. P., 359

McFee, R., 21
 McGuire, J., 125, 408
 MacIntyre, W. J., 572
 Makous, N., 373
 Mandelbaum, H., 578
 Mandelbaum, R. A., 578
 Master, A. M., 402
 Meilman, E., 212
 Miller, G., 41
 Miller, H., 238
 Miller, R. D., 1, 7
 Mills, S. D., 411
 Moon, H. D., 481
 Moore, D. J., 572
 Moore, M. J., 520
 Moser, M., 402

Moses, C., 103
 Mueller, R. P., 894

Nathanson, M. H., 238
 Norman, L. R., 832

O'Connor, W. R., 515
 O'Neill, T. J. E., 321

Page, I. H., 286, 681
 Painter, R. C., 727
 Parker, R. L., 1, 7
 Paterson, J. C., 732
 Perera, G. A., 549
 Piccoli, A. J., 868
 Pick, A., 41
 Pick, R., 276, 858
 Pickering, G. W., 599
 Pitts, R. F., 82
 Pordy, L., 402
 Preston, F. W., 515
 Prince, T. C., 520
 Pritchard, W. H., 572
 Proudfit, W. L., 245
 Pruitt, R. D., 161
 Pugh, D. G., 411

Raab, W., 373
 Redisch, W., 352, 862
 Rhodes, G. L., 103
 Richards, D. W., Jr., 688
 Rinehart, J. F., 481
 Roback, G. S., 90
 Rodbard, S., 276, 858
 Rosecan, M., 30
 Rosenman, R. H., 371
 Rosenthal, R. L., 257
 Rusted, I. E., 825

St. George, S., 367, 371, 661, 851, 853
 Samuels, A. J., 874
 Sanetta, S. M., 559, 894
 Saphir, O., 843
 Sarnoff, L. C., 51, 63
 Sarnoff, S. J., 51, 63
 Scarrone, L. A., 489
 Schack, J. A., 586
 Scheifley, C. H., 825
 Schlesinger, M. J., 334
 Schmidt, C. F., 666
 Schmidt, W. C., 572
 Schnabel, T. G., Jr., 74
 Schwartz, S. P., 193
 Scott, R. C., 125, 888
 Scott, R. W., 559
 Seiwert, V. J., 125
 Sell, C. G. R., 110
 Sheckman, E., 862
 Shepherd, J. T., 281
 Simeone, F. A., 559
 Simonson, E., 201, 749
 Smedal, M. I., 711
 Smith, G., 16, 262
 Snellen, H. A., 801
 Soffer, A., 183
 Soloff, L. A., 96
 Sornberger, C. F., 711
 Stamler, J., 276, 858
 Starr, I., 643

INDEX OF AUTHORS

ix

Stauffer, H. M., 96
 Steele, J. M., 352, 862
 Steinberg, I., 762
 Stillman, P. H., 352
 Stokes, J. H., 267
 Stow, R. M., 21
 Streeter, R. B., 538
 Surawicz, B., 378

 Tannenbaum, O., 586
 Taussig, H. B., 930
 Taymore, R. C., 402
 Texter, E. C., Jr., 352
 Thompson, C. E., 515

van den Berg, J., 415
 van Lingen, B., 740
 Vesell, H., 586
 Viar, W. N., 911

 Wald, M. H., 919
 Weaver, J. C., 257
 Wedell, H. G., 919
 Weinberg, S. L., 41
 Wessler, S., 334
 Westcott, R. N., 888
 Whidborne, J., 740
 Whitman, J. F., 245
 Wier, J. A., 868

Wiggins, W. S., 82
 Williams, S. C., 902
 Wolff, L., 768
 Wood, O. H., 925
 Woodbury, L. A., 172
 Wright, I. S., 489

 Yu, P. N. G., 183

 Zatuchni, J., 96
 Zaus, E. A., 593
 Zoll, P. M., 334, 832

INDEX OF SUBJECTS

(Page numbers in italics refer to abstracts)

- Abdomen**, inversion of viscera with levocardia, *943*
- Acetylcholine**, *152, 629*
in ganglionic transmission, *287*
- Acidosis**
and plasma potassium, *434*
respiratory, during surgery, *433*
- Aconitine**, auricular arrhythmia due to, *529-37*
- ACTH**, *839*
and experimental cholesterol atherosclerosis in rabbit, *470*
for rheumatic fever, *442*
- Action potential**, *173-75, 179-80*
- Adams-Stokes syndrome**, *242*
- Adenomata**, thyroid, and I^{131} , *233*
- Adenosine triphosphate**, cardiac, *311*
- Adrenal gland**
in hypertension, *289-90, 441*
steroid from, *478*
- Adrenalectomy**, and blood pressure, *433*
- Adrenaline**, vs. noradrenaline, *287*
- Adrenocorticotrophic hormone**.
See ACTH
- Age (of patient)**
and circulation time in over-riding aorta, *108*
and coronary atherosclerosis, *471*
and electrocardiography, *749-56, 759-61*
and heart position, *752*
and hypertension due to unilateral renal disease, *551*
and I-J duration, *390*
and myocardial infarction, *618*
and phenylindanedione, *517*
and Q-I duration, *390, 397*
and Q-J duration, *390*
and sodium excretion, *922-23*
and spontaneous cardiac rupture, *338, 344*
and sympathectomy for essential hypertension, *133, 134, 135*
in syndrome of orthostatic hypotension, anhidrosis and impotence, *37*
- Agranulocytosis**
fatal, due to procaine amide, *628*
and mercurial diuretics, *782*
- Albumin**
iodinated, in determination of cardiac output, *572-76*
serum, for cerebral edema after cardiac arrest, *789*
- Alcaloid**, ergot, for peripheral vascular disease, *308*
- Alcohol**, as diuretic agent, *438*
- Alkalosis**
hypokalemic, *952*
and plasma potassium, *434*
- Alpha-naphthyl thiourea**, pulmonary edema due to, *783*
- American Heart Association, Inc.**
annual meeting, *318, 445, 639*
program of, *450-80*
Board of Directors, *318*
calendar, *640, 800*
"Circulation Research," *316-17, 800, 959*
manuscripts, *445*
subscription rates, *445*
Committee on Ballistocardiography, *447*
Committee on Electrocardiography, *447*
Council for High Blood Pressure Research, *318*
Council on Rheumatic Fever, *319*
educational materials, *447*
Established Investigatorships, *446*
"Facts about Employment and Heart Disease," *960*
Fifth Inter-American Cardiological Congress, *959*
Fulbright awards, *447*
gift from American Trust Co., *159*
grants-in-aid, *156-59, 639*
Howard W. Blakeslee award, *799*
program guide, *319*
regional conferences, *319*
Registry of Cardiovascular Pathology, *160*
research fellowships, *319, 446*
rheumatic fever study, *317-18*
"Returning Cardiacs to Work," *960*
Scientific Council officers, *318*
scientific sessions, *445, 639, 960*
Second International Congress of Cardiology, *319*
Section on Circulation, *319, 960*
"These Hands Are Able," *960*
training institute, *319*
- Aminophylline**, *839*
and interarterial coronary anastomosis, *838*
- Ammonium chloride**, and mercurhydrin, *306*
- Amphetamine**, and blood coagulation, *941*
- Amplitude**, ballistic, *398-99*
- Amputation**
for gangrene, *644*
spontaneous, *656*
- Amyl nitrate**, *250-55*
- Anastomosis**
aortic-pulmonary, in tetralogy of Fallot, *143*
end-to-end, of the aorta, *633*
interarterial coronary, *838, 840*
in spontaneous cardiac rupture, *336*
- Anemia**
and interarterial coronary anastomosis, *838, 840*
in osteitis deformans, *717*
- Anesthesia**
general, reflex circulatory responses during, *151*
and Ro2-2222, *71*
spinal
hemodynamic changes, *559-70, 894-900*
after intracasternal injection of fibrin, *57*
peripheral vasodilation due to, *69*
in pregnancy, *630*
in surgery for congenital heart disease, *780*
- Aneurysm**
arteriosclerotic popliteal, *473*
arteriovenous, *794*
carotid-cavernous, *958*
of descending aorta, *443*
dissecting
of aorta, *154, 634*
of coronary artery, *627*
intra-cranial, *633*
saccular, simulated, *787*
and syphilitic aortic insufficiency, *271*
- Angina**
cardiac, Tromexan for, *506-07*
after smoking, *309*
- Angina pectoris**, *144, 226, 250*
and amyl nitrate inhalation, *253*
as contraindication to sympathectomy, *137*
dioxylene phosphate for, *125-29*
of effort, and postextrasystolic T-wave changes, *543*
exercise tolerance test in, *128*
in hyperthyroidism, *224-25*
 I^{131} for, *225-28*
IJ amplitude in, *398*
after myocardial infarction, *406*
papaverine for, *125*
and penicillin-treated cardiovascular syphilis, *273*
propylthiouracil for, *225*
skin temperature in, *144*
and spontaneous cardiac rupture, *339, 345*
thiourea derivatives for, *225*
thyroidectomy for, *225-26*
- Angiocardiography**
in congenital heart disease, *943*
in patent ductus arteriosus, *122*
in pericardial effusion, *792*
- Angio-organopathy**, and prothrombin utilization test, *426*
- Angiopulmography**, *632*
- Angiotonase**, tissue, in hypertension, *290*
- Angiotonin**, in hypertension, *290*
- Anhidrosis**, with impotence and orthostatic hypotension, *30-38*
- Anion pattern**, and mercurial diuresis, *944*
- Anoxemia**
and blood pressure, *951*
and cardiac rhythm, *951*
and mental retardation, *940*

- Anoxia**, 624, 629
bradycardia after, 310
due to pulmonary arterial occlusion, 296
in pulmonary embolism, 770
in pulmonary emphysema, 433
due to tracheal obstruction, 296
- Antagonism**, antibiotic, 789
- Anthraxis**, khellin for, 306
- Antibiotic**
antagonism, 789
for bacterial endocarditis, 613
for hemorrhagic shock, 953
synergism, 789
- Anticoagulant**
for cardiac infarction, 778
heparin-gelatin-dextrose as, 614
and lumbar block, 426
phenylindanedione, 515-18
prolonged therapy with, 615
for pulmonary embolism, 775
See also Dicumarol; Heparin; Tromexan
- Anticoagulant No. 63**, 778
clinical evaluation of, 142
- Antidiuretic hormone**, secretion of, 435
- Antilipofanogen**, and cholesterol, 477
- Antistime**, electrocardiography after, 620
- ANTU**, pulmonary edema due to, 783
- Anxiety**
as contraindication to sympathectomy, 139
electrocardiography in, 621
norepinephrine in peripheral blood during, 154
- Aorta**
abdominal, 941
coarctation of, 615
insidious thrombosis of, 436
arteriosclerosis of, 466
atherogenesis in, 279
atherosclerotic, 277
effect of gonadectomy on, 476
exogenous cholesterol in, 365
biventricular, 942
blood pressure in, 781
coarctation of, 781, 931
and abdominal aortic pulsation, 941
arterial homograft for, 294
arterioles in, 727-31
constitutional changes in, 143
in infant, 411-14
subclavian artery in, 632, 633
surgery for, 143
after dietary cholesterol, 684
dissecting aneurysm of, 154
diagnosis of, 634
foam-cellular lesion of, 457
5-nucleotidase activity in, 463
occlusion of
thrombotic, 957
and vagotomy, 58
over-riding and circulation time, 106-09
thoracic, end-to-end anastomosis of, 633
transposed, in Taussig-Bing malformation, 936
in transposition of great vessels, 936-37
wall of, in hypertension, 469
- Aortic valve**
homograft, 956
rupture of, nontraumatic, 304
syphilitic insufficiency of, penicillin treated, 269-74
- Aortitis**
bacterial, and coarctation of aorta, 411
syphilitic, 945
death due to, 273-74
penicillin treated, 269
- Aortography**, 623
retrograde, in patent ductus arteriosus, 122
- Apnea**, pressure waves during, 553
- Apoferitin**, 291
- Appendage**, auricular, as myocardial graft, 793
- Arm**, blood pressure variations in the two, 441
- Arrest**, cardiac. See Standstill
- Arrhythmia**, 615
auricular, due to aconitine, 529-37
after commissurotomy for mitral stenosis, 329
in hyperthyroidism, 223-24
procaine amide for, 308
vs. quinidine, 304
sinus, and blood pressure swings, 553
in traumatic heart disease, 423-24
See also Fibrillation; Flutter; Tachycardia
- Arterialization of coronary sinus**, with ligation of circumflex artery, 264
- Arteriography**, translumbar, 793, 956
- Arteriole**
measurement of, in coarctation of aorta, 727-31
necrosis of, in hypertension, 603-06
resistance of, in essential hypertension, 286
- Arteriopathy**, classification of, 480
- Arteriosclerosis**
American Society for the Study of, proceedings of annual meeting, 455-80
aortic, 466
coronary
histogenesis of, 481-88
and myocardial hypertrophy, 429
after total thyroidectomy, 234
dibenamine for, 440
elastic tissue, 788
obliterans, lumbar sympathectomy for, 794
and osteitis deformans, 713-15
of pancreas, in Paget's disease, 715
pulmonary, cor pulmonale due to, 635
- Arteritis**, rheumatic, 303
- Artery**
brachial, pressure in, 561
bronchial
anatomy of, 152
in bronchiectasis, 152
in ligation of pulmonary artery, 152
carotid, 53, 457, 631, 632
circumflex, 262-65
clot in, 303
coronary. See Coronary artery
excised, lipid deposition of, 303
experimental lesion of, 479
femoral, occlusion of, 281-84
homograft, for coarctation of aorta, 294
innominate, 632
intimal thickening of, 788
of limb, presenile medial calcinosis of, 468
nourishment of, 733
obliterative disease of, peripheral neurectomy for pain of, 471
occlusion of
due to atherosclerosis, 12
and congestive heart failure, 11
and intracardiac mural thrombi, 7-14
popliteal, aneurysm of, 473
pulmonary. See Pulmonary artery
renal, 624, 625, 952
retinal, constriction of, 601
spasm of, traumatic, 950
subclavian, 632, 633
vasa vasorum of, 463
- Arthritis**, rheumatoid, 3-hydroxy-2-phenylcinchoninic acid for, 439-40
- Ascites**, with myxedema, 623
- Ascorbic acid**, 955
- Asynchronism**, ventricular, 579
- Atherogenesis**
cholesterol-induced, effect of gonadectomy on, 476
and compound F, 478
coronary, estrogen-induced inhibition of, 474
endocrine influences on, in cholesterol-fed chicks, 460
and induced hypercholesterolemia, 681-86
- Atheroma**, of renal arteries, 952
- Atherosclerosis**
age-conditioned spontaneous regression of in cholesterol-fed chick, 459
of aorta, exogenous cholesterol in, 365
arterial occlusion due to, 12
blood cholesterol in, 473
blood phospholipid in, 473
of carotid arteries, 457
due to cholesterol
effect of ACTH on, 470
effect of cortisone on, 470
prevention of, 459
in rabbit, 464
cholesterol-phospholipid ratio in, 278
coronary
after age 60, 471
in bilaterally oophorectomized women, 461

- Atherosclerosis** (*Cont'd*)
 and coronary artery disease, 732
 and estrogen, 276-79, 460, 858-60
 and gonadectomy, 476
 after low cholesterol-low fat diet, 295
 after oophorectomy, 461
 phospholipid-cholesterol ratio in, 475
 and sex of patient, 278
 in dog, 466
 and giant molecules, 784
 management of, 477
 and plasma heparin, 462
 popliteal aneurysms due to, 473
 prevention of, 477
 in vitro study, 456
- ATP**, cardiac, 311
- Atresia**
 pulmonary, arterial oxygen saturation in, 744
 tricuspid, 935
 congenital, with hypoplasia of right ventricle, 442
- Atrium**
 ballistic waves of, 79
 electrokymography of border of, in mitral regurgitation, 96-101
 left
 myxoma of, 762-67
 thickness of, 828
See also Auricle
- Atropine**
 cardioacceleration due to, 631
 for protoveratrine toxicity, 216
- Aureomycin**
 and anticoagulant, 507-09
 in cholesterol-fed rabbit, 470
 for subacute bacterial endocarditis, 777
- Auricle**, 532
 flutter in, due to aconitine, 529-37
 infarction of, 945
 left
 electrokymogram of, 792
 after intracisternal injection of fibrin, 53
 rhythm of, after procaine amide, 194
 right
 pressure in, after spinal anesthesia, 563, 568
 in pulmonary stenosis, 935
See also Atrium
- Auricular appendage**, as myocardial graft, 793
- Auscultation**
 description in, 790
 in mitral stenosis, 324
 mitral systolic, after commissurotomy for mitral stenosis, 329
- Axis**, left, deviation of, 119
- Azotemia**, as contraindication to sympathectomy, 137
- Bacitracin**
 for bacterial endocarditis, 613
 for staphylococcal endocarditis, 141
- Bacteremia**, staphylococcal, bacitracin for, 141
- Bacteria**, intestinal, vitamin K from, 508
- Bacterial endocarditis**. *See* Endocarditis
- BAL and Mercuhydrin**, 246, 248
- Ballistocardiography**, 942
 abnormal complexes in, 74-80
 in angina pectoris, 299
 in bundle branch block, 578-84
 and cardiac cycle, 586-92
 and cardiac output, 398
 in coronary heart disease, 945
 and electrocardiography, 408-10, 588
 and electrokymography, 588
 and femoral pulse wave, 589
 in a free clinic, 408-10
 in hypertension, 299
 in myocardial infarction, 299, 402-07
 Nickerson, in arteriosclerotic heart disease, 389-400
 in syndrome of orthostatic hypotension, anhidrosis and impotence, 36
- Barbiturate poisoning**, electrocardiography in, 149
- Barometric pressure**, circulatory adjustments to, 153
- Beat**, premature
 and postextrasystolic T-wave changes, 544
 after procaine amide, 194
 ventricular, 187
- Bed**, rocking, 648
- Benadryl**, 307
- Benzedrine**, for syndrome of orthostatic hypotension, anhidrosis and impotence, 36
- Benzodioxane test**, for pheochromocytoma in hypertension, 432
- Bezold reflex system**, 288
- Bing-Taussig malformation**, 936
- Bishydroxycoumarin**, 614, 778
 vs. anticoagulant No. 63, 142
- Bleeding**. *See* Hemorrhage
- Block**
 A-V, 429
 with auricular flutter, 296
 ballistic complexes in, 75
 bundle-branch, 168-69
 ballistocardiography in, 578-84
 and heart disease, 578
 intermittent, 431
 and postextrasystolic T-wave changes, 541-42
 P-R interval in, 171
 right, 429, 430, 620
 transient, 431
 caudal, as vasodilator, 655
 in diphtheritic myocarditis, 785
 epinephrine for, 239-41
 Isuprel for, 239-41
 lumbar, and anticoagulant therapy, 427
 norepinephrine for, 239-41
 procaine relief of pain in, 784
- Blockade**
 ganglionic
- and intracisternal injection of fibrin, 56-57
 by TEAC, 288
- Blocking agent**
 adrenergic, SKF 688A as, 352-58
 autonomic, after intracisternal injection of fibrin, 55
- Blood**
 brachial arterial, oxygen content of, after spinal anesthesia, 563
 cholesterol in, 458
 coagulation of, in myocardial infarction, 257-61
 impedance of, 419
 oxygen saturation of, and osteitis deformans, 716
 peripheral, norepinephrine in, during anxiety, 154
 pulmonary arterial, oxygen content of, after spinal anesthesia, 563
 residual volume of, in right ventricle, 302
 temperature of, after tracheal steam inhalation, 667-68
 urea in, in Mercuhydrin hypersensitivity, 245
 volume of
 in heart disease, 616, 882
 and heart volume, 302
 in hyperthyroidism, 224
 pulmonary, 224, 675
 after pulmonic stenosis operation, 427
 in skin, 631
- Blood pressure**
 and adrenalectomy, 433
 and anoxia, 951
 after amyl nitrate, 252, 253
 and dietary potassium, 433
 and dihydroergocornine, 308
 in esophageal varices, 152
 after fasting, 154
 and hexamethonium bromide, 786
 and nephrectomy, 433
 and potassium, dietary, 371-72
 reflex regulation of, 441
 renal artery, 625
 respiratory variations in, 553-58
 and sodium excretion, 919-23
 after spinal anesthesia, 566
 after sympathectomy for essential hypertension, 136-37
 variations of, in both arms, 441
See also Hypertension; Hypotension; Pressure
- Body**
 and heart shape, 310
 temperature of, in hyperthyroidism, 223
 warming of, for vasodilation, 527
 weight of, and electrocardiography, 749, 756-61
- BOEA**. *See* Tromexan
- Bone**, cardiovascular changes in Paget's disease, 711-22
- Book reviews**
 Bradley, J. H.: Patterns of Sur-

- vival—An Anatomy of Life, 797-98
- McMichael, J.: Pharmacology of the Failing Heart, 315
- Mommaerts, W. F. H. M.: Muscular Contraction, 313
- Page, I. H.: Hypertension, 313
- Prinzmetal, M., Corday, E., Brill, I. C., Oblath, R. W., and Kruger, H. E.: The Auricular Arrhythmias, 796
- Proceedings of the First Conference on Electrocardiography, 314
- Smithwick, R. H.: Surgical Measures in Hypertension, 313
- Ungerleider, H. E., and Gubner, R.: Roentgenology of the Heart and Great Vessels, 796
- Brachial artery**, pressure in, after spinal anesthesia, 561
- Bradycardia**
due to proteroveratrine, 216, 218
secondary, after anoxia, 310
after spinal anesthesia, 569
- Brain**
extract of
and blood cholesterol, 458
and serum lipid pattern, 458
infarction of, 12
lesion in, in congenital heart disease, 427
pressor substance in, 291
of rat, digitoxin in, 369
- British anti-lewisite**. See BAL
- Bronchial arteries**, 152
anatomy of, 635
- Bronchiectasis**
bronchial arteries in, 152
khellin for, 306
- Buerger's disease**, dibenamine for, 440
- Bufagin**, 437
- Buffer system**, sino-aortic, 288
- Bulbar conjunctiva**, in hypertensive vascular disease, 301
- Bundle branch**, in activation of ventricle, 168-69
- Bundle branch block**, 168-69
ballistocardiography in, 578-84
intermittent, 431
and postextrasystolic T-wave changes, 541-42
P-R interval in, 171
right, 429
electrocardiography in, 620
vectorcardiography in, 430
transient, 431
- Burn**, respiratory, 666-79
- Bursting**, cardiac, 422
- Butacaine**, in prolongation of heparin action, 778
- C-5068**, 623
- Cabbage**, and cortisone, 955
- Caffeine**, for toxicity of Etamon, 907
- Calcification**
of coronary artery, 144, 145
in osteitis deformans, 714
of mitral valve, 327-28
in osteitis deformans, 714
- Calcinosis**, presenile medial, 468
- Calcium gluconate**, for toxicity of Etamon, 907
- Calf (of leg)**, blood flow through, during occlusion of femoral artery and vein, 281-84
- Capillary**
fragility of, 738
intimal, 733
- Capillary microscope**, 306
- Carbon dioxide**, pulmonary effects of, in isolated dog lung, 162
- Carbon monoxide**, 625
- Carcinomatosis**, 501
- Cardiac arrest**. See Standstill
- Cardiac force**, 408
- Cardiac index**, after spinal anesthesia, 561
- Cardiac output**
in acute dehydration, 625
in ballistocardiography, 398
vs. cardiac force, 408
in chronic cor pulmonale, 888-93
determination of, 153
using iodinated serum albumin, 572-76
in hyperthyroidism, 223
after phlebotomy, 69
and polycythemia, 879
and sodium excretion in dog, 153
after spinal anesthesia, 561, 569
in syndrome of orthostatic hypotension, anhidrosis, and impotence, 36
- Cardioacceleration**, due to atropine, 631
- Cardiomegaly**, due to glycogen-storage disease, 626
- Cardiothoracic ratio**, in Paget's disease, 721
- Cardiotachoscope**, 785
- Cardiovascular disease**
congenital, 943
classification of, 779
hypertensive, 409
and osteitis deformans, 711-22
- Cardiovascular syphilis**, penicillin-treated, 267-75
- Carditis**, rheumatic, leukocyte-platelet thrombosis in, 631
- Carotid artery**
atherosclerosis of, 457
internal, thrombosis of, 631, 632
pressure in, after intracisternal injection of fibrin, 53
- Carotid sinus**
pressure on electrocardiography, 431
and hypertension, 288
in reflex regulation of blood pressure, 441
stimulation of and T-wave changes, 544
- Catecholamine**, adrenosympathogenic, 376
- Catheterization**
cardiac
in determining circulation time from right ventricle to ear, 106
disturbances after, 435
in mitral stenosis, 324
intraventricular, 149
and immersion hypothermia in dog, 311
of renal veins, 951
venous pressure during, 786
- Cation**, in aorta wall, in hypertension, 469
- Cation-exchange resin**, 304, 617
for edema, 428
- Cerebrum**
circulation in
and intravenous papaverine, 953
and postural hypotension, 37
lesion in, in congenital heart disease, 427
and myocardial infarction, 619
- Chest**
normal, cardiac potential in, 201-10
in Paget's disease, 716
pain in
after commissurotomy for mitral stenosis, 328
in pulmonary embolism, 770, 773-74
- Chick**
atherosclerosis in
age-conditioned spontaneous regression of, 459
and estrogen, 276-79, 460
cholesterol-fed, 459-60
effect of compound F on atherogenesis in, 478
- Chicken embryo**, atrioventricular conduction in, 170
- Child**
cyanotic, care of, 939
electrocardiographic patterns of, 148
endocardial fibrosis in, 952
- Chill**, due to procaine amide, 629
- Chloride**
excretion, after vasopressin, 435
and posterior pituitary extract, 440
- Chloroform**, and extraction of digitoxin from tissue, 370
- Cholate**, 685-86
- Cholestenone**, 365
- Cholesterol**
and antilipofagin, 477
atherosclerosis due to
effect of ACTH on, 470
effect of cortisone on, 470
in rabbit, 464
in blood, effect of brain extract on, 458
C¹⁴-labeled, 476
and compound F, 478
conversion of
to cholic acid, 365
to coprosterol, 365
to pregnanediol, 365
dietary
and aureomycin, 470
and mortality in coronary atherosclerosis, 295
regression of coronary atherosclerosis after, 858-60
in serum, 364
tritium labeled, 350-66
digitonine precipitation in
Sultz test for, 462

- Cholesterol** (*Cont'd*)
 erythrocytic, 364
 and giant molecules, 784
 hepatic, 364
 synthesis of, 467
 partition of, and heparin, 455
 ratio of, to phospholipid in atherosclerosis, 278-79
 in serum
 in atherosclerosis, 473, 478
 effect of diet on, 458
- Cholic acid**, formation of, from cholesterol, 365
- Choline**, for coronary artery disease, 472
- Chordae tendineae**, 826-28
 rupture of, 422, 423
- Chylomicron index**, in atherosclerotic state, 478
- Circulation**
 and barometric pressure, 153
 cerebral
 and intravenous papaverine hydrochloride, 953
 in postural hypotension, 37
 after cold injury, 469
 through calf of leg during occlusion of femoral artery and vein, 281-84
 through hand, effect of smoking on, 301
 hepatic, estimated, 895
 in limbs, 712
 effect of arterial clot on, 303
 in muscular dystrophy, 151
 peripheral, after spinal anesthesia, 565, 567
 and procaine amide, 953
 pulmonary, 791
 and acute hypoxia, 153
 renal, in heart failure, 616
 from right ventricle to ear, in congenital heart disease, 106-09
 and Roniacol, 90-95
 velocity of, in hyperthyroidism, 223
- Circumflex artery**, ligation of, 262-65
- Cirrhosis of the liver**
 myocardosis in, 626
 nocturnal diuresis in, 428
- Cisterna magna**, fibrin injection into, 52-53
- Claudication**, intermittent, 634
 and amphetamine, 941
 defect of, due to dicumarol, 141
 and emotions, 778
- Clotting time**
 in dormant estivating mammals, 142
 heparin, in acute myocardial infarction, 257-61
 after Ro2-2222, 71
- Clubbing**, in tetralogy of Fallot, 934
- Coagulation**. *See* Clotting
- Coarctation of aorta**, 781, 931
 and abdominal aortic pulsation, 941
 arterial homograft for, 294
 arterioles in, 727-31
 constitutional changes in, 143
 in infant, 411-14
- with isolated biventricular aorta, 942
 simulating pheochromocytoma, 615
 subclavian artery in, 632, 633
 surgery for, 143
- Cockerel**, cholesterol-fed, regression of coronary atherosclerosis in, 858-60
- Cold**
 for obstructive vascular disease, 651
 peripheral injury due to, 469
- Commissure**, mitral, 829
- Commissurotomy**, 321-32, 444
- Compound A**, 309
- Compound F**, and atherogenesis, 478
- Compound S**, 309
- Compression**
 of leg, sodium excretion after, 911-17
 of neck, sodium excretion after, 914, 916
- Conduction**
 atrioventricular, in chicken embryo, 170
 disturbances of, 615
 retrograde, in ventricular tachycardia, 298
 ventricular, 298
- Congestion**, nasal, after SKF 688A, 356
- Conjunctiva**, bulbar, in hypertensive vascular disease, 301
- Conner Memorial Lecture**, 222-36
- Consumption of oxygen**, and diuresis, 399
- Contour**, coronary, 541
 during pregnancy, 103-05
- Contraction**
 in heart muscle fiber, 791
 isometric, and cardiac ejection, 311
 ventricular, 177-78
- Contusion**, myocardial, 423-24
- Conus**, pulmonary, 934
- Coprosterol**, formation of, from cholesterol, 365
- Cor pulmonale**, 874-86
 acute, 768-69, 771, 772
 electrocardiography in, 947
 chronic
 cardiac output in, 888-93
 electrocardiography in, 948
 due to pulmonary arteriosclerosis, 635
 subacute nonvascular, electrocardiography in, 622
- Coramine**, for toxicity of Etamon, 907
- Coronary artery**
 anatomic pattern of, and cardiac rupture, 335
 arteriosclerotic
 histogenesis of, 481-88
 and myocardial hypertrophy, 429
 atherogenesis, estrogen-induced inhibition of, 276-79, 474
 atherosclerotic, 461, 732
 after age 60, 471
 and estrogen, 276-79, 460, 858-60
- and gonadectomy, 476
 after low cholesterol-low fat diet, 295
 after oophorectomy, 461
 phospholipid-cholesterol ratio in, 475
 and sex of patient, 278
 calcification of, 144, 145
 dilatation of, 255
 due to dioxylene phosphate, 125
 disease of, 619, 732-39
 ballistocardiography in, 946
 heparin for, 479
 Hydrergin for, 783
 in pregnancy, 946
 vs. pulmonary embolism, 774
 surgery for, 618
 dissecting aneurysm of, 627
 foam-cellular lesion of, 457
 insufficiency of
 amyl nitrate for, 253
 diagnostic test, 190
 left, abnormal origin of, 780
 nonsclerotic, 482
 occlusion of
 and arterialization of coronary sinus, 16-20
 and cardiac rupture, 335, 342
 and Paget's disease, 714, 720-22
 sclerosis of
 and pulmonary hypertension, 145
 after total thyroidectomy, 234
 spasm of, 734, 839
 thrombosis, 13
- Coronary sinus**
 arterialization of
 with ligation of circumflex artery, 264
 and mortality after coronary occlusion, 16-20
 for ventricular fibrillation, 265-66
 elevation of sinus pressure, with ligation of circumflex artery, 263-64
 occlusion of, with ligation of circumflex artery, 264-65
- Cortex**, adrenal, in hypertension, 289
- Corticotropin**. *See* ACTH
- Cortisone**, 955
 effect of, on vascular reaction to horse serum, 305
 and experimental cholesterol atherosclerosis in rabbit, 470
 for lupus erythematosus, 630
 for myocardial infarction, 619, 630
 and serum disease, 305
- Cothromboplastin**, and coagulation defect due to dicumarol, 141
- Cough**, in pulmonary embolism, 771
- Cranium**, aneurysm in, 633
- Creatinine**, and posterior pituitary extract, 440
- Curare**, prior to intracisternal injection of fibrin, 57
- Cushing's syndrome**, and hypertension, 289
- Cusp**, mitral, 829

Cyanosis

- due to cardiac malformation, 933-40
- exertional, with mitral stenosis, 868-73
- severe, 943
- in truncus arteriosus, 937-38
- Cyst, pleuropericardial, 155

DCB, for flutter due to aconitine, 531-32

DEA. See Tromexan

DEAE, for flutter due to aconitine, 531-32

Decamethonium, 57

Decompensation, cardiac, adrenocortical function in, 295

Decortication, pulmonary, 794

Defibrillation, electrical, 308

Denervation

- intracisternal, injection of fibrin after, 56
- sinoartial, 791

Depolarization, 174

- of membrane, 173-75
- and ventricular contraction, 177
- of ventricular fiber, 179

Desiccation, for gangrene, 656

Desoxycholate, 685-86

Desoxycorticosterone acetate

- action of, on frog heart, 790
- hypertension due to, 289, 469
- inhibition of cardiovascular-renal effects of, 309
- pressor action of, effect of sodium on, 373-76

Dextrocardia, without situs inversus, 938

Dextroposition, of aorta, 936

Dextrose, and heparin-gelatin as anticoagulant, 614

DFP, and action potential of frog sciatic nerve, 180

DHO-180, 308

Diabetes mellitus, coronary thrombosis in, 946

Diastole, atrial, electrokymographic curve in, 98

Dibenamine, 440

- phenoxyethyl derivative of, 352-58
- test for pheochromocytoma in hypertension, 432

Dicumarol

- vs. anticoagulant No. 63, 142
- coagulation defect due to, 141
- control of, 614
- by heparin tolerance test, 142
- hemorrhages due to, 502-06
- hypoproteinaemia due to, 941

- for myocardial infarction and heparin clotting time, 260
- serial clotting studies during, 259

- for pulmonary embolism, 775
- prolonged therapy with, 615
- and spontaneous cardiac rupture, 341

- vs. Tromexan, for thromboembolism, 489-513

Diencephalic syndrome, hypertensive, 288

Diet

- and phospholipid-cholesterol ratio in coronary atherosclerosis, 475
- and serum cholesterol, 458

Diethylaminoethanol, for flutter due to aconitine, 531-32

Digitalis

- and cardiac hypertrophy, 309
- as diuretic agent, 438
- electrocardiographic effect of, 172-73, 622
- excretion of, 857
- in traumatic heart disease, 424

Digitalization, in auricular fibrillation, 944

Digitonine precipitation, in Schultz test, 462

Digitoxin

- in animal tissue, after parenteral injection, 367-70
- chloroform extraction of, 370
- hepatic destruction of, 663-65
- hepatic excretion of, 661-63
- intestinal excretion of, 851-52
- and membrane action potential, 174-76
- and membrane voltage, 176
- and protoveratrine, 216
- renal excretion of, 853-57
- thrombopenic purpura after, 630
- and ventricular contraction, 178
- symptoms after, 438

Digoxin

- intravenous, in congestive heart failure, 616
- and phosphate content of heart, 310
- for rheumatic heart disease, 699-702

Dihydroergocornine, 308

Di-isopropyl fluorophosphate, and action potential of frog sciatic nerve, 180

Dilatation

- coronary, 255
- due to dioxyline phosphate, 125
- with finger, in commissurotomy for mitral stenosis, 331

Dilator muscle of iris, after SKF 688A, 357

Dioxyline phosphate, for angina pectoris, 125-29

Discrepancy type, of R-wave, 949

Dissociation, auriculoventricular, procaine, amide for transient ventricular fibrillation during, 193-99

Diuresis, 438

- due to angiotonin, 290
- due to ephedrine, 440
- due to epinephrine, 440
- mercurial
 - and agranulocytosis, 782
 - electrolytes in, 306
 - increasing edema during, 944
 - potentiation of, 944
 - water excretion due to, 82-88
- nocturnal, 428
- due to norepinephrine, 440
- and oxygen consumption, 399
- due to prinine, 440
- due to renin, 290

- and systolic force, 396

Dog

- atherosclerosis in, 466
- cardiac output in, 153
- digitoxin in, 369
- digitoxin destruction in, 664
- digitoxin excretion in, 662
- excitation in ventricular septum of, 161-71
- heart in rewarming from hypothermia, 302
- hypothermic, intraventricular catheters in, 311
- after intracisternal injection of fibrin, 53
- nephrectomized, lesions elicited by renin in, 469
- sodium excretion in, 153
- reversed, 938

Ductus arteriosus

- patent, 930-31
 - arterial oxygen saturation in, 745
 - without continuous murmur, 110-23
 - indentation of esophagus in, 443
 - and pulmonary hypertension, 938
 - size of, 121
 - vs. ventricular septal defect, 115, 120

Duodenum, ulcer of, as contraindication to sympathectomy, 140

Dyspnea

- asthmatic, 790
- after hypothyroidism due to I^{131} , 228
- paroxysmal
 - in penicillin-treated cardiovascular syphilis, 271, 272
 - treatment of, 939
- pulmonary, 626
- in pulmonary embolism, 770-71

Dystrophia myotonica, electrocardiography in, 146

Dystrophy, muscular, circulation in, 151

Ebstein's anomaly of tricuspid valve

- arterial oxygen saturation in, 745-46
- diagnosed during life, 779-80

Edema

- cation-exchange resins for, 428
- cardiac, 782
- cerebral, after cardiac arrest, 789
- and diuresis, 438
- electrolyte metabolism in, 302
- pulmonary
 - acute, 442
 - due to alpha-naphthyl thiourea, 783
 - detection of, 675-76
 - in epileptics, 783
 - after hypothyroidism due to I^{131} , 228
- neurogenic, 51-61
- neurohemodynamic, 61
- peripheral vasodilation for, 69 70, 72

- Edema** (*Cont'd*)
 in traumatic heart disease, 424
 with salt depletion syndrome, during mercurial diuresis, 944
 thermal, 670-75
Effort, and spontaneous cardiac rupture, 344
Effusion
 interlobar pleural, 144
 pericardial
 angiocardigraphic confirmation of, 792, 793
 after commissurotomy for mitral stenosis, 328
Einthoven triangle, accuracy of, 24
Eisenmenger complex, 936
 arterial oxygen saturation in, 744-46
Ejection, cardiac, and isometric contraction, 311
Electrical field, thoracic, homogeneity of, 948
Electrocardiography
 and age of patient, 749-56, 759-61
 after amyl nitrate inhalation, 250-55
 in aneurysm with syphilitic aortic insufficiency, 271
 after antisthine, 620
 in anxiety, 621
 and ballistic complexes, 75-78, 588
 in barbiturate poisoning, 149
 and body weight, 749, 756-61
 in bundle branch block, 620
 cardiac potential in normal chest, 201-10
 of children, 148, 431
 in cor pulmonale, 947, 948
 subacute nonvascular, 622
 digitalis pattern of, 622
 and dihydroergocornine, 308
 in direct exploration of ventricular septum, 161-71
 in dystrophia myotonica, 146
 emetine hydrochloride in, 297
 esophageal, in congenital anomaly of heart, 294
 during exercise, 183-91
 and fright, 620
 after histamine, 620
 intracavity, of human left ventricle, 149
 left ventricular preponderance, 784
 in neurovegetative imbalance, 148
 newer methods of, 430
 in paroxysmal tachycardia, 145
 in poliomyelitis, 148, 621, 948
 precordial, of rectilinear type, 147
 in pregnancy, 948
 in pulmonary embolism, 772
 and reflex vagal stimulation, 431
 in right ventricular hypertrophy, 146
 in right ventricular strain, 145, 149
 in spontaneous cardiac rupture, 340
 in subendocardial infarction of left ventricle, 299
 in syndrome of orthostatic hypotension, anhidrosis and impotence, 35
 in syphilitic aortic insufficiency, 270
 in syphilitic aortitis, 269
 vector analysis of, 430
Electroencephalogram, in syndrome of orthostatic hypotension, anhidrosis and impotence, 35
Electrokymography
 aortic, 589
 of atrial border, in mitral regurgitation, 96-101
 and ballistocardiography, 588
 of left auricle, 792
 of left ventricle, 792
 and phasic analysis, 792
Electrolyte
 and hypertension, 289
 during mercurial diuresis, 306
 metabolism of, in edema, 302
 myocardial, after epinephrine, 153
 renal regulation, 434
Embolism
 coronary
 and necrotizing renal papillitis, 944
 due to pre-existent thrombosis, 957
 in mitral stenosis, 323
 pulmonary, 768-76
 vs. coronary disease, 774
 fatal, 626
 after venous ligation, 957
 and heparin, 427
 heparin-gelatin-dextrose for, 614
 and myocardial infarction, 11
Embryo, chicken, atrioventricular conduction in, 170
Emetine hydrochloride, electrocardiographic effects of, 297
Emotion, and phospholipid-cholesterol ratio in coronary atherosclerosis, 475
Emphysema
 chronic pulmonary, adaptation to anoxia in, 433
 khellin for, 306
Enkephalin, 291
Encephalomyocarditis, 843-49
Encephalopathy, hypertensive, after protoveratrine, 217
Endarteritis, 794
Endocarditis
 bacterial
 acute, 777
 antibiotics for, 141, 613, 777
 subacute, 293, 777, 778
 and cardiovascular stress, 293
 mycotic, 613
 staphylococci, bacitracin for, 141
Endocardium, fibroelastosis of, 627
Endocrine glands, and hypertension, 289-90, 624
Endothelium, pathologic changes of, silver nitrate in demonstration of, 463
Enterococci, biochemical properties, 613
Eosinophil, circulating, after myocardial infarction, 947
Ephedrine
 diuretic effect of, 449
 vasoconstriction due to, 307
 after Ro-2222, 65
Epinephrine, 629
 and atrioventricular transmission, 628
 and cardiac rhythmicity, 238-43
 diuretic effect of, 440
 electrolyte in myocardium after, 153
 for heart block, 239-41
 isopropyl, 438
 and plasma potassium, 440
 pressor action of, effect of sodium on, 373-76
 and sinus rhythm, 242
 and vascular resistance, 629
 ventricular fibrillation due to, 243
 water in myocardium after, 153
Epistaxis
 due to anticoagulant, 504
 after SKF 688A, 356
Ergot, alealoid, for peripheral vascular disease, 308
Esophagus
 electrocardiographic lead, 294
 hiatus hernia of, simulating coronary artery disease, 295
 indentation of, in patent ductus arteriosus, 443
 and vascular ring, 931-32
Estivation, clotting time in squirrel during, 142
Estrogen
 and coronary atherosclerosis, 276-79, 460, 474, 858-60
 and serum phospholipid, 478
Etamon, toxicity of, 902-10
Ethyl biscoumacetate, 778
Exchange resin, cation, 304, 428, 617
Excitability-recovery curve, 310
Excitation, in ventricular septum, 161-71
Excretion
 of digitalis, 857
 intestinal, of digitoxin, 851-52
 renal, of digitoxin, 853-57
 of sodium
 and blood pressure, 919-23
 after compression of the legs, 911-17
 after compression of neck, 916
Exercise
 postural, for obstructive vascular disease, 648
 QT interval after, 149
Exercise test, 90, 252, 253
 in angina pectoris, 127, 128
 modified double two-step, electrocardiography in, 183-91
Extracellular fluid, measurement of, 625

- Extremity**, blood flow in, effect of obstructive arterial clot on, 303
See also Leg; Limb
- Fallot's tetralogy**. *See* Tetralogy
- Fasting**, blood pressure after, 154
- Fat**
 deposition of, 477
 dietary, and mortality in coronary atherosclerosis, 295
- Feces**, excretion of digitoxin in, 851-52
- Femoral artery**, occlusion of, 281-84
- Femoral vein**, occlusion of, 281-84
- Ferritin**, 291
- Fetus**, and German measles, 939
- Fever**
 due to procaine amide, 629
 in pulmonary embolism, 771
 in spontaneous cardiac rupture, 340
- Fiber**
 of muscle, and direction of excitatory pathways, 169
 myocardial, contraction of, 791
 ventricular, effect of cardiac glycoside on, 172-81
- Fibrillation**
 auricular
 due to aconitine, 530
 with anomalous A-V excitation, 949
 after commissurotomy for mitral stenosis, 329
 digitalization in, 944
 and left ventricular mural thrombi, 4
 in mitral stenosis, 324
 paroxysmal, 771, 774
 presystolic movement in, 99
 procaine amide for, 41-50
 pronestyl for, 41-50
 quinidine for, 306, 627, 790
 in rheumatic heart disease, 706-07
 after SKF 688A, 355
 in traumatic heart disease, 424
 and flutter, 309
 in pulmonary embolism, 771, 774
 ventricular
 surgery for, 444
 arterialization of coronary sinus for, 16, 265-66
 due to epinephrine, 243
 due to norepinephrine, 243
 of reoxygenation, 621
 transient, 193-99
 vulnerability to, 310
- Fibrin**
 intracasternal injection of, 52-53
 and thickening of pulmonary artery, 952
- Fibroelastosis**, endocardial, 627
- Fibrosis**
 endocardial, in infant, 952
 myocardial, and cardiac rupture, 335
- Fick's method**, cardiac output measured by, 153
- Filtration**, glomerular, 625
 in heart disease, 881-83
- Finger**
 response of, to SKF 688A, 357
 temperature of, 864, 866
- Finger dilatation**, in commissurotomy for mitral stenosis, 331
- Fistula**, arteriovenous, 293, 794
 congenital, 634
 with ligation of circumflex artery, 262-63
 and mortality after coronary arterial ligation, 16-20
 multiple, in right lung, 958
 pulmonary, 792
 and venous pressure, 435
- Flatus**, passage of, after Ro2-2222, 66
- Flicker fusion threshold**, 90
 in circulatory effects of roniacol, 94
- Fluid mapper**, for graphic representation of electrocardiographic leads, 21-29
- Fluoroscopy**
 in coronary artery calcification, 144
 in pulmonary embolism, 772
- Flutter**
 due to aconitine, 530
 auricular
 vs. paroxysmal auricular tachycardia, 296
 procaine amide for, 41-50
 pronestyl for, 41-50
 circus-movement, due to aconitine, 529-37
 plus fibrillation, 309
 quinidine for, 627
- Forearm**, circulation in, after sympathectomy, 434
- Forehead**, temperature of, 864, 866
- Friction rub**, pericardial after commissurotomy for mitral stenosis, 329
- Fright**, and electrocardiography, 620
- Frog**
 sciatic nerve of
 and di-isopropyl fluorophosphate, 180
 and eserine, 180
 ventricle of, effect of cardiac glycoside on, 172-81
- Fungus**, endocarditis due to, 613
- Ganglion**
 blockade of
 after intracasternal injection of fibrin, 56-57
 by Ro2-2222, 69
 by TEAC, 288
 removal of, and intracasternal injection of fibrin, 55-56
 superior cervical sympathetic, and hemiparesis, 634
- Gangrene**, 644
 desiccation for, 656
 after heat application, 649
- Gelatin**, and heparin-dextrose as anticoagulant, 614
- Gene**, rheumatic, 955
- German measles**, 939
- Glomerular filtration rate**, 625
- Glomerulonephritis**, and cardiovascular stress, 293
- Glucose**, hypertonic, 302
- Glycocholate**, 685-86
- Glycogen disease**, with cardiomegaly, 626
- Glycoside**, cardiac, and single ventricular fibers of frog, 172-81
- Gonadectomy**, and cholesterol-induced atherogenesis, 476
- Gonadotrophin**, chorionic, and estrogen-induced inhibition of coronary atherogenesis, 474
- Gout**, 3-hydroxy-2-phenylcinchoninic acid for, 439-40
- Gradient**, intra-atrial, 441
- Graft**
 homologous, for coarctation of aorta, 294
 myocardial, auricular appendage as, 793
- Graham Steell murmur**, in mitral stenosis, 326
- Ground squirrel**, clotting time in, 142
- Ground substance**, mucoid, in coronary arteriosclerosis, 484
- G-Strophanthin**, 309
- H³**
 dietary cholesterol labeled with, 359-66
- H wave**, 79-80, 590
 in heart failure, 393, 396, 398
 in myocardial infarction, 404
- Hand**, blood flow through, effect of smoking on, 301
- Headache**
 hypertensive, sympathectomy for, 138
 due to protoveratrine, 217
- Heat**, for obstructive vascular disease, 648
- Heart**
 anomalies of, esophageal leads in, 294
 arrest of. *See* Standstill
 axis deviation of, in mitral stenosis, 327
 congestive, and left ventricular mural thrombosis, 3, 5
 after dietary cholesterol, 684
 of dog, digitoxin in, 369
 electrical defibrillation of, 308
 in hemochromatosis, 303, 787
 hypertrophy of, 296, 309, 941
 in hyperthyroidism, 224
 and Paget's disease, 714-15, 717-21
 malformations of, 930-40
 mass of, after excess dietary potassium chloride, 153
 mechanical events of, 177
 in myxedema, 234
 phosphocreatine content of, 311
 position of
 and age of patient, 752
 and electrocardiographic patterns, 203-10

Heart (Cont'd)

- potential of, in normal chest, 201-10
 - of rabbit, digitoxin in, 369
 - of rat, digitoxin in, 368
 - rate
 - after amyl nitrate inhalation, 253
 - and dihydroergocornine, 308
 - and exercise, 186, 190
 - and postextrasystolic T-wave changes, 544
 - and posture, 434-35
 - after spinal anesthesia, 561, 569
 - and venoarterial shunting, in congenital heart disease, 108
 - and veratramine, 629
 - rewarming of, from hypothermia, 302
 - rupture of, 424
 - spontaneous, 334-47
 - due to trauma, 422
 - size of, 224, 309, 714-15, 717-21
 - in aneurysm with syphilitic aortic insufficiency, 271
 - in rheumatic heart disease, 706
 - in syphilitic aortic insufficiency, 270
 - in syphilitic aortitis, 269
 - and somatotype, 310
 - sounds
 - diastolic, 954
 - first, 790, 954
 - in patent ductus arteriosus, 115
 - and the thyroid gland, 222-36
 - in transposition of great vessels, 937
 - volume of
 - and blood volume, 302
 - and impedance, 416-17
 - weight of
 - and left ventricular mural thrombosis, 3, 5
 - and myocardial infarction, 3
 - in spontaneous rupture, 335
 - work of, 880-81
- Heart disease**
- air transportation in, 958
 - arteriosclerotic, procaine amide for auricular fibrillation in, 43
 - ballistocardiogram, 299
 - and bundle branch block, 578
 - congenital
 - anesthesia in surgery for, 780
 - angiocardiography in, 943
 - cerebral lesion in, 427
 - classification, 779
 - oximetry in, 740-48
 - right ventricular hypertrophy in, 296, 941
 - coronary
 - ballistocardiography in, 409, 945
 - hypertensive, procaine amide for auricular fibrillation in, 43
 - hypometabolism for, 225
 - and mass X-ray survey for tuberculosis, 955
 - postextrasystolic T-wave change in, 538-47

- pulmonary, 952
- rheumatic, 303, 688-709
 - procaine amide for auricular fibrillation in, 43
- thyroid, 224
- traumatic nonpenetrating, 421-25

Heart failure

- congestive, 143, 616, 944
 - after aortic-pulmonary anastomosis in tetralogy of Fallot, 143
 - and arterial occlusion, 11
 - and atmospheric temperature, 616
 - blood volume in, 616
 - circulation time from right ventricle to ear in, 106-09
 - as contraindication to sympathectomy, 137
 - and humidity, 616
 - in hyperthyroidism, 224
 - I^{131} for, 228-30
 - intravenous digoxin in, 616
 - in mitral stenosis, 326
 - and mitral valve, 324
 - nocturnal diuresis in, 428
 - and penicillin-treated cardiovascular syphilis, 272-73
 - plasma volume in, 616
 - propylthiouracil for, 225
 - pulmonary engorgement in, 782
 - respiratory volume in, 782
 - and sodium excretion, 923
 - and spontaneous cardiac rupture, 338-39, 345
 - thiourea derivatives for, 225
 - thyroidectomy for, 225-26
 - H wave in, 393, 398
 - I wave in, 393
 - interlobar pleural effusion in, 144
 - ligation of vena cava for, 781
 - due to myxedema, 234
 - Q-J/Q-I ratio in, 390
 - in Paget's disease, 716
 - renal circulation in, 616
 - renal excretion of digitoxin in, 854-57
- Hematocrit**, after spinal anesthesia, 563
- Hematuria**, due to anticoagulant, 504
- Hemiparesis**, recurring, 634
- Hemiplegia**, after commissurotomy for mitral stenosis, 329
- Hemochromatosis**, heart in, 303, 304, 787
- Hemometakinesia**, 652
- Hemopericardium**, 422, 423
- Hemoptysis**
- in mitral stenosis, 326
 - in pulmonary embolism, 771
 - in rheumatic heart disease, 705
- Hemorrhage**
- during anticoagulant therapy, 502
 - epicardial, 421
 - intimal, 733-35
 - intracranial, and coarctation of aorta, 411

- shock due to, 953
 - subendocardial, 422, 954
 - after surgery on pagetic bone, 712
 - due to Tromexan, 426
- Hemosiderosis**, pulmonary, with mitral stenosis, 868, 872-73
- Hemostasis**, after surgery on pagetic bone, 712
- Heparin**
- and cholesterol partition, 455
 - for coronary artery disease, 479
 - and gelatin-dextrose as anticoagulant, 614
 - intravenous vs. subcutaneous, 614
 - and lipoprotein, 455, 457
 - in plasma
 - assay of, 472
 - and atherosclerosis, 462
 - prolongation of action of, 778
 - and pulmonary embolism, 427, 775
 - tolerance test with, in dicumarol control, 142
- Heparin clotting time**, in acute myocardial infarction, 257-61
- Hepatic vein**
- oxygen content in spinal anesthesia, 895
 - pressure in, in spinal anesthesia, 898
- Hernia**, hiatus, of esophagus, 295
- Hexamethonium bromide**, 786
- for arterial hypertension, 150
- Hiatus hernia**, esophageal, simulating coronary artery disease, 295
- Histamine**, 629
- electrocardiography after, 620
 - liberation of, after Ro2-2222, 72
 - skin reaction to, 645-47
 - test for pheochromocytoma in hypertension, 432
 - vasoconstriction due to, 307
- H-J interval**, 589
- and ventricular systole, 591
- h-L interval**, and Q-T interval, 589
- Homeostasis**, vascular, and hypertension, 286-92
- Homograft**
- aortic valve, 956
 - arterial, for coarctation of aorta, 294
 - in resection of aneurysm of descending aorta, 443
- Hormone**
- antidiuretic, 435
 - and hypertension, 624
- HPC**, 439-40
- Humidity**, and congestive heart failure, 616
- Hydrazinophthalazine**, 623
- Hydreglin**
- for coronary disease, 783
 - for peripheral vascular disease, 308
- Hydrogen**, radioactive, dietary cholesterol labeled with 359-66

- Hydrosis**, deficiency of, with impotence and orthostatic hypotension, 30-38
- Hydrothorax**, with myxedema, 623
- Hydroxycoumarin**, 778
- Hyperadrenalemia**, in essential hypertension, 289
- Hyperbilirubinemia**, in pulmonary embolism, 770
- Hypercholesterolemia**
of hypothyroidism, coronary arteriosclerosis after, 234
idiopathic, 467
induced, and atherogenesis, 681-86
in rabbit, 465
prevention of, 459
- Hypercorticism**, and hypertension, 290
- Hypersensitivity**, to Mercuhydrin, 245-48
- Hypertension**, 291
aberrant renal arteries in, 300
and acute arteriolar necrosis, 603-06
and adrenalectomy, 433
arterial
 hexamethonium bromide for, 150
 pyrogen for, 150
 and spontaneous cardiac rupture, 338
 veriloid for, 624
ballistocardiogram, 299
due to desoxycorticosterone, 289, 469
and dietary potassium, 433
dietary treatment of, 301
endocrine factors in, 624
essential, 286-88
 acid-base equilibrium, 950
 renal resistances in, 300
 Soffer test in, 950
 sympathectomy for, 131-40
humoral mechanisms in, 289-91
and intimal hemorrhage, 738
and kidney disease, 432
and left ventricular mural thrombosis, 3, 5
malignant, 135, 432
 and nephrectomy, 433
 pathogenesis of, 599-610
 with unilateral renal-artery occlusion, 624
in mitral stenosis, 150
and nephrectomy, 140, 432
neurogenic, 286, 288
and Paget's disease, 715
pale, 600
paroxysmal, simulating pheochromocytoma, 432
due to pheochromocytoma, 151
Piperoxan as test in, 151
postnephrectomy, 286
protoveratrine for, 151, 212-21
pulmonary
 and coronary sclerosis, 145
 in mitral stenosis, 324
 in patent ductus arteriosus, 119-22
 and persistent patency of the ductus arteriosus, 938
 primary, 635
 and pulmonary vascular bed, 122
 red, 600
Regitine as test in, 151
renal, 290-91, 549-51
 adrenal in, 441
 aorta wall in, 469
 retinitis in, 600-03
 rice diet for, 150
 roentgenogram of sella turcica in, 300
 and sodium excretion, 919-23
 in spontaneous cardiac rupture, 344
 test for pheochromocytoma, 432
 and vascular homeostasis, 286-92
 vasomotor mechanisms in, 287-89
- Hypertensive diencephalic syndrome**, 288
- Hyperthyroidism**
angina pectoris in, 224-25
arrhythmia in, 223-24
blood flow velocity in, 223
blood volume in, 224
cardiac enlargement in, 224
cardiac output in, 223
cardiovascular manifestations of, 223
congestive failure in, 224-25
- Hypertrophy**
of heart, 309
 in hyperthyroidism, 224
 and Paget's disease, 714-15, 717-21
right ventricular, in congenital heart disease, 296, 941
right ventricular, electrocardiography in, 146, 209
left ventricular, precordial tracing of rectilinear type in, 147
myocardial, and coronary arteriosclerosis, 429
- Hyperventilation**, voluntary, in congenital heart disease, 743-48
- Hypohidrosis**, with impotence and orthostatic hypotension, 30-38
- Hypometabolism**
due to I^{131} in heart disease, 231, 233
for intractable heart disease with normal thyroid function, 225
- Hyponatremia**, and mercuhydrin hypersensitivity, 247
- Hypopotassemia**
due to hypotension, 371-72
merging of T and U waves in, 383, 385
- Hypoprotebinemia**
due to anticoagulant No. 63, 142
due to bishydroxycoumarin, 614
vitamin K for, 941
vitamin K_1 for, 142
- Hypotension**
due to hypopotassemia, 371-72
intra-arterial transfusion for, 625
postural
 with anhidrosis and impotence, 30-38
 due to SKF 688A, 352, 355
 after sympathectomy, 139
 due to protoveratrine, 212-21
 after spinal anesthesia, 566
 due to sulfhydryl compound, 300
- Hypothalamus**, in syndrome of orthostatic hypotension, anhidrosis and impotence, 37
- Hypothermia**
due to immersion, 311
rewarming from, 302
- Hypothyroidism**
due to I^{131} for angina pectoris, 226-28
due to I^{131} for congestive heart failure, 228-30
- Hypoxia**
acute, and pulmonary circulation time, 153
in cor pulmonale, 892
- I^{131} . See Iodine, radioactive
- I wave**
in heart failure, 393
after diuresis, 396
in myocardial infarction, 404
- I-G amplitude**, 398-99
- I-J duration**, 390
- IJK complex**, in congestive heart failure after diuresis, 396
- Impedance**, during cardiac cycle, 415-20
- Impotence**, with anhidrosis and orthostatic hypotension, 30-38
- Index**, cardiac, after spinal anesthesia, 551
- Infant**
coarctation of aorta in, 411-14
cyanotic, care of, 939
electrocardiographic patterns of, 148
endocardial fibrosis in, 952
- Infarction**
auricular, 945
cardiac, anticoagulant for, 778
cerebral, 12, 427
massive, of right ventricle, 593-97
myocardial, 423
 acute, 429
 and age of patient, 617
 angina pectoris after, 405
 anticoagulants in, 498
 ballistocardiography in, 299, 402-07
 blood coagulation in, 257-61
 cerebral manifestations of, 619, 783
 circulating eosinophils after, 947
 as contraindication to sympathectomy, 137
 and coronary occlusion, 428
 cortisone for, 619, 630
 hemodynamic alterations in, 947
 intra-arterial transfusion for shock in, 618
 major surgery in patients with, 618
 mortality after anticoagulant, 508-09
 prothrombin in, 142
 Q_2 deflection in, 298
 relief of pain in, 784
 skin temperature in, 144

Infarction (Cont'd)

- in spontaneous cardiac rupture, 335-36, 339-43, 345
- thrombo-embolism in, 1-6, 7-14
- urinary urobilinogen after, 925
- and urticaria, 784
- Wolff-Parkinson-White syndrome in, 429
- posterior, leads in, 620
- pulmonary, 499
- subendocardial, of left ventricle, 299

Injury potential, of cardiac muscle of turtle, 154

Innominate artery, 632

Insomnia, as contraindication to sympathectomy, 139

Insufficiency**aortic**

- syphilitic, and aneurysm, 271
- syphilitic, penicillin-treated, 269-74

coronary

- amyl nitrate for, 253
- diagnostic test, 190
- electrocardiography in, 209
- after penicillin for cardiovascular syphilis, 296
- vs. real post-tachycardial syndrome, 145
- recovery after, 617
- myocardial, and Q-I interval, 397
- tricuspid, in rheumatic heart disease, 706

Insulin, and plasma potassium, 440

Intelligence, and anoxemia, 940

Intestine, and excretion of digitoxin, 851-52

Intima

- nourishment of, 733
- thickening of, 788

Intubation, tracheal, reflex circulatory responses to, 151

Inulin, extraction of, 625

Iodine

- radioactive
 - for angina pectoris, 225-28
 - in determination of cardiac output, 572-76
 - for heart disease, 225-36
 - metabolism of, 786
- tincture of, 657

Ion, tetraethyl ammonium, toxicity of, 902-10

Iris

- dilation of, 355
- after SKF 688A, 357

Irradiation, ultra-violet ray, plasma clotting after, 141

Ischemia, of leg, 958

Isopropyl norepinephrine and cardiac rhythmicity, 238-43

Isuprel, 438

See also Norepinephrine, isopropyl

J-L interval, 589, 491

J wave

- in congestive heart failure after diuresis, 396
- and femoral pulse wave, 589

- in myocardial infarction, 404
- notched, 579
- and ventricular ejection, 590-91

K wave

- in congestive heart failure after diuresis, 396
- and femoral pulse wave, 589

Khellin, 839

for chronic pulmonary disease, 306

Kidney

- aberrant renal arteries of, in hypertension, 300
- artificial, 433, 791
- circulation in, in heart failure, 616
- after dietary cholesterol, 684
- disease of
 - in choice of operation for hypertension, 140
 - and hypertension, 432, 549-51
- of dog, digitoxin in, 369
- electrolyte regulation by, 434
- and excretion of
 - digitoxin, 853-57
 - mercury, 441
- in heart disease, 881-83
- and hypertension, 290-91, 599
- adrenal in, 441
- necrotizing papillitis, 944
- in Paget's disease, 715
- polycystic disease of, 633
- pressure in, 792
- resistance in, in essential hypertension, 300

Kimmelstiel-Wilson's syndrome, atheroma of renal artery in, 952

Kyphosis, cervicodorsal, in osteitis deformans, 715

L wave, 591

Lability, of prothrombin time

- after dicumarol, 496
- after Tromexan, 496

Lability test, serum, in diagnosis of endocarditis lenta, 293

Landis' apparatus, for obstructive vascular disease, 648

Laryngoscopy, reflex circulatory responses to, 151

Lead, electrocardiographic, 146

chest

- in normal men, 201-10
- and position of patient, 784
- graphic representation of, by fluid mappers, 21-29
- esophageal, 620
- in congenital anomaly of heart, 294
- frontal, rational order of, 622
- precordial, 201
- Wilson's explanation of, 430

Leg

- blood flow through calf of, during occlusion of femoral artery and vein, 281-84
 - ischemia of, 958
 - sodium excretion after compression of, 911-17
 - temperature, 865
 - venous occlusion of, 957
 - venous thrombosis of, 12
- See also Limb

Leukocyte-platelet thrombosis, 631

Leukocytosis

- in pulmonary embolism, 772, 774
- in spontaneous cardiac rupture, 340

Levocardia, 943

situs inversus with, 938

Levo-norepinephrine, 238-41

Ligation

- of circumflex artery
 - and arterialization of coronary sinus, 16-20, 264
 - with arteriovenous fistulas, 262-63
 - with elevation of sinus pressure, 263-64
 - with occlusion of coronary sinus, 265
- of vein, for pulmonary embolism, 775
- of vena cava, for heart-failure, 781, 782

Limb

- blood flow in, 303, 712
 - fistulation of, congenital, 634
 - presenile medial calcinosis of arteries of, 468
 - venous congestion of, 625
- See also Leg

Lipid

- in comatose man, 365
- in coronary arteriosclerosis, 484-88
- deposition of, in excised arteries, 303
- phosphorus, in atherosclerotic state, 478
- in serum, 456
- effect of brain extract on, 458

Lipo-adrenal cortex, 309

Lipoprotein

- beta, 683
- and heparin active factor, 457
- in plasma, effect of hormones on, 455
- in serum, endocrine influences on, 460
- transformation of, in vitro, 474

Liquorice therapy, hypokalemic alkalosis with tetany during, 952

Liver

- and cholesterol, 364, 467
- dietary, 684
- cirrhosis of
 - myocardosis in, 626
 - nocturnal diuresis in, 428
- digitoxin destruction by, 663-65
- digitoxin excreted by, 661-63
- estimated blood flow, in spinal anesthesia, 895
- and hypertension, 291
- of rabbit, digitoxin in, 369
- of rat, digitoxin in, 368

Lobar vein, occlusion of, 795

Lues. See Syphilis

Lung

- burned, 666-79
- chronic disease of, 874-86
- edema of
 - neurogenic, 51-61
 - peripheral vasodilation for, 69, 70, 72

- embolism in, and myocardial infarction, 7-14
inflation of,
 passive, 556
 and vascular resistance, 629
right, multiple arteriovenous fistula in, 958
surgery of, function tests in, 626
tuberculous, vascular changes in, 437
- Lupus erythematosus**
 mepacrine for, 307
 cortisone for, 630
- Lutembacher syndrome**, 932-33
- Mammal**, dormant estivating, clotting time in, 142
- Mapper**, fluid, for graphic representation of electrocardiographic leads, 21-29
- Master's test**
 vs. amyl nitrate test, 252, 253
 modified double, electrocardiography in, 183-91
- Measles**, German, 939
- Mecholyl**
 for obstructive vascular disease, 651
 test for pheochromocytoma in hypertension, 432
- Medulla**, adrenal, in hypertension, 289
- Membrane**
 action potential, and digitoxin, 174-75
 resting potential, 173, 176
 voltage of, and digitoxin, 176
- Mentality**, and anoxemia, 940
- Mepacrine**, for lupus erythematosus, 307
- Mercaptopmerin**, 246
- Mercuhydrin**, 306
 and ammonium chloride, 306
 hypersensitivity to, 245-48
- Mercurin**, 84-87
- Mercuriophylline**, 246
- Mercury**, renal excretion of, 441
- Mercuzanthine**, 246
- Microscope**, capillary, 306
- Mineralocorticoid**, 290, 373
- Mitral valve**
 anatomy of, 825-30
 calcification of, 327-28
 insufficiency of
 and stenosis, 702-04
 syphilitic, and aneurysm, 271
 regurgitation of, atrial border electrokymography in, 96-101
 rupture of, 423
 stenosis of, 789
 commissurotomy for, 321-32, 444
 embolus in, 323
 with exertional cyanosis, 868-73
 hypertension in, 149, 150
 and insufficiency, 702-04
 in rheumatic heart disease, 690-705
- surgery for, 793
 thrombus in, 323
- Mortality**
 in commissurotomy for mitral stenosis, 330-32
 in coronary atherosclerosis after low cholesterol-low fat diet, 295
 after coronary occlusion, effect of coronary sinus arterialization on, 16-20
 after ligation of circumflex artery, 265
 with arterialization of coronary sinus, 264
 with arteriovenous fistulas, 263
 with elevation of sinus pressure, 264
 with occlusion of coronary sinus, 265
 due to syphilitic aortitis, 273-74
- Mouse**, tumor-bearing, 304
- Mucoprotein**, in human serum, heparinoid nature of, 305
- Murmur**
 continuous, patent ductus arteriosus without, 110-23
 Graham Steell, in mitral stenosis, 327
 mitral systolic, after commissurotomy for mitral stenosis, 329
 in penicillin-treated cardiovascular syphilis, 271, 272
- Muscle**
 papillary, excitation of, 166
 skeletal, action potential in, 179
 See also Myocardium
- Myocarditis**
 in acute poliomyelitis, 148
 descending, 945
 diphtheritic, heart block in, 785
 and encephalitis, 848
 in hemolytic tonsillitis, 154
 in scarlet fever, 154
- Myocardium**
 contraction of fiber, 791
 effect of digitalis on, 309
 electrolyte in, after epinephrine, 153
 fibrosis of, and cardiac rupture, 335
 in hemochromatosis, 304
 lesion of, in subacute bacterial endocarditis, 777
 phosphocreatine of heart, 310-11
 repolarization of, and postextrasystolic T-wave changes, 546
 respiration of, 437
 vs. skeletal muscle, 179
 subendocardial injury to, 190-91
 of turtle, 154
 ventricular, excitatory process in, 161-71
 water in, after epinephrine, 153
- Myocardosis**
 in cirrhosis of liver, 626
 definition of, 945
- Myomalacia**, 423
- Myxedema**, effusions in, 623
- Myxedema heart**, 234
- Myxoma**, of left atrium, 762-67
- Natriuresis**, 290
- Nausea**
 due to dioxyline phosphate, 127-28
 due to protoveratrine, 216-18
 after spinal anesthesia, 566
- Neck**, compression of, sodium excretion after, 914, 916
- Necrosis**, acute arteriolar, 603-06
- Neosynephrine**, for syndrome of orthostatic hypotension, anhidrosis and impotence, 36
- Nephrectomy**
 and blood pressure, 433
 for hypertension, 140
 and hypertension, 433
 in parabiotic rat, 432
 due to unilateral renal disease, 549-51
 vascular lesions elicited by renin after, 469
- Nephritis**, and hypertension, 606
- Nerve**, sciatic, of frog, 180
- Nervous system**
 central
 and hypertension, 291
 in syndrome of orthostatic hypotension, anhidrosis and impotence, 35, 37
 sympathetic
 blockade of, by TEAC, 288
 and SKF 688A, 352-58
 vegetative, and Wolff-Parkinson-White syndrome, 297
- Nervousness**, as contraindication to sympathectomy, 139
- Neuralgia**, after sympathectomy, 139
- Neurectomy**, peripheral, for pain in obliterative arterial disease, 471
- Neurogenic pulmonary edema**, 51-61
- Neurovegetative imbalance**, electrocardiography in, 148
- Nickerson ballistocardiogram**, in arteriosclerotic heart disease, 389-400
- Nicotine**, in obstructive vascular disease, 654
- Nicotinic acid**, and skin capillaries, 306
- Nicotinic alcohol tartrate**, circulatory effects of, 90-95
- Nitrate**, silver, in demonstration of pathologic changes of endothelium, 463
- Noradrenaline**, vs. adrenaline, 287
- Norepinephrine**
 and cardiac rhythmicity, 238-43
 diuretic effect of, 440
 for heart block, 239-41
 for induced cardiac standstill, 238-39
 isopropyl
 and cardiac rhythmicity, 238-43
 for heart block, 239-41
 and sinus rhythm, 242

- Norepinephrine** (*Cont'd*)
 in peripheral blood during anxiety, 154
 pressor action of, effect of sodium on, 373-76
 and sinus rhythm, 242
 for syndrome of orthostatic hypotension, anhidrosis and impotence, 36
 ventricular fibrillation due to, 243
- Nose**, congestion in, after SKF 688A, 356
- Notching**
 of ballistocardiographic wave, 392, 398
 of electrocardiographic wave, 379-82
- Novocaine**, and skin capillaries, 306
- Nucleotidase**, in human aorta, 463
- Obesity**, and SKF 688A, 357
- Obstruction**, tracheal, anoxia due to, 296
- Occlusion**
 arterial, 281-84, 296, 624
 due to atherosclerosis, 12
 and congestive heart failure, 11
 and intracardiac mural thrombi, 7-14
 systemic, 7-14
 cerebrovascular, and myocardial infarction, 13
 of common femoral artery and vein, blood flow through calf of leg during 281-84
 coronary
 and cardiac rupture, 335, 342
 and myocardial infarction, 428
 recovery after, 617
 of coronary sinus, with ligation of circumflex artery, 264-65
 of pulmonary artery, anoxia due to, 296
 of right renal artery, malignant hypertension with, 624
 thrombotic, of aorta, 957
 venous, of leg, 957
- Oncotic effector**, plasma, as diuretic agent, 438
- Oscillator**, Traube, 557
- Oscillometry**, in circulatory effects of roniacol, 92-94
- Osteitis deformans**, and cardiovascular disease, 711-22
- Ouabain**, 310
- Output**, cardiac. *See* Cardiac output
- Oximetry**
 in congenital heart disease, 740-48
 circulation time, 106-09
- Oxygen**
 arterial, in heart disease, 884-85
 arterial saturation
 in cor pulmonale, 879, 889
 in congenital heart disease, 743-47
 arteriovenous difference after spinal anesthesia, 563, 568
- brachial arterial-hepatic venous, in spinal anesthesia, 895
- consumption of
 and diuresis, 399
 after spinal anesthesia, 563, 568
 deficit of, 625
- in hepatic venous blood, in spinal anesthesia, 895
- high pressure, cardiac changes due to, 949
- as peripheral vasodilator, 655-56
- pulmonary diffusion of, with left-to-right shunt, 943
- splanchnic consumption, in spinal anesthesia, 898
- P cardiale**, 785
- P wave**, 785
 and ballistocardiographic complexes, 75-76
 and exercise, 184
 and H wave, 590
- Pacemaker**
 A-V, and procaine amide, 197-99
 cardiac
 and epinephrine, 238-43
 and isopropyl norepinephrine, 238-43
 and norepinephrine, 238-43
 sinoauricular, 197
 sinus node as, in flutter due to aconitine, 531
- Paget's disease**, and cardiovascular disease, 711-22
- Pain**
 in myocardial contusion, 423
 in obliterative arterial disease, 471
 in pulmonary embolism, 770-71, 773-74
 and sodium excretion, 915
 after sympathectomy for essential hypertension, 139
- Pancreas**, arteriosclerotic, in Paget's disease, 715
- Papaverine**
 and cerebral circulation, 953
 and interarterial coronary anastomosis, 858
- Papillary muscle**, 828
- Papilledema**, as contraindication to sympathectomy, 137
- Papillitis**, necrotizing renal, 944
- Paradox**, therapeutic, in penicillin-treated cardiovascular syphilis, 274
- Paralysis**, respiratory, after spinal anesthesia, 567
- Paredrine**, for syndrome of orthostatic hypotension, anhidrosis and impotence, 36
- Patent ductus arteriosus**. *See* Ductus arteriosus
- P.A.S. therapy**, hypokalemic alkalosis with tetany during, 952
- Peak**, auricular, 177
- Pelentan**. *See* Tromexan
- Penicillin**
 for bacterial endocarditis, 613
 for cardiovascular syphilis, 267-75, 439
- coronary insufficiency after, 296
- prophylactic, 939
- for subacute bacterial endocarditis in pregnancy, 293
- Pericardectomy**, 794
- Pericarditis**
 adhesive, 422
 constrictive, 794
 fibrinous, in spontaneous cardiac rupture, 336
- Pericardium**, in nonpenetrating traumatic heart disease, 421-22
- pH of plasma**, and mercurial diuresis, 944
- Phasic analysis**, and electrokymography, 792
- Phenylindanedione**, 515-18
- Pheochromocytoma**, 289
 hypertension due to, 151
 simulated by
 coarctation of abdominal aorta, 615
 paroxysmal hypertension, 432
 tests for, in hypertension, 432
- Pherentasin**, 290
- Phlebotomy**
 cardiac output after, 69
 for polycythemia, 884
- Phosphocreatine**, cardiac, 310-11
- Phospholipid**, 478
 ratio of, to cholesterol in atherosclerosis, 278-79, 475
 in serum
 in atherosclerosis, 473
 effect of choline on, in coronary artery disease, 472
 effect of estrogen on, 478
- Photoelectric cell**, sensitivity of, 100-01
- Phrenicectomy**, intracisternal injection of fibrin after, 56
- Pig**, interarterial coronary anastomoses in, 832-41
- Piperoxan**, as test in hypertension, 151
- Pitressin**, 84-85, 88, 291, 435
 and spontaneous cardiac rupture, 340
 vasoconstriction due to, 307
- Pituitary**, posterior, and sodium balance, 440
- Placenta**, after dietary cholesterol during pregnancy, 104
- Plaque**, atherosclerotic, in coronary artery disease, 732-39
- Plasma**
 clotting of, after ultra-violet irradiation, 141
 heparin in
 assay of, 472
 and atherosclerosis, 462
 lipoproteins in, effect of hormones on, 455
 oncotic effector, as diuretic agent, 438
 pH of, and mercurial diuresis, 944
 potassium in
 and acidosis, 434
 and alkalosis, 434

- and insulin, 440
- and epinephrine, 440
- renal flow, in heart disease, 881-83
- volume of, in heart disease, 616, 881-83
- Platelet**, and coagulation defect due to dicumarol, 141
- Plethysmography**
 - in circulatory effects of roniacol, 94
 - in syndrome of orthostatic hypotension anhidrosis and impotence, 36
- Pleura**, interlobar, effusion in, 144
- Pleuritis**, constrictive, 794
- Pleuropericardial cyst**, 155
- Pneumonia**, bacterial, acute endocarditis in, 777
- Pneumopericardium**, 422
- Poisoning** due to barbiturate, electrocardiography in, 149
- Poliomyelitis**, acute
 - electrocardiography in, 148, 621, 948
 - myocarditis in, 148
- Polyarteritis nodosa**, with loop glomeruli, 788
- Polycythemia**, 874-76, 884-85
 - in tetralogy of Fallot, 934
- Polypus cordis**, 951
- Popliteal artery**, aneurysm of, 473
- Position**, and sodium excretion, 914
 - See also Posture
- Post-tachycardial syndrome**, vs. coronary insufficiency, 145
- Posture**
 - and antecubital venous pressure, 435
 - and heart rate, 434-35
 - hypotension due to, with anhidrosis and impotence, 30-38
 - and pulse pressure, 434-35
 - and stroke volume modulation, 555
- Potassium**
 - dietary, and blood pressure, 371-72, 433
 - as diuretic agent, 438
 - excretion of, after vasopressin, 435
 - in plasma
 - and acidosis, 434
 - and alkalosis, 434
 - and epinephrine, 440
 - and insulin, 440
- Potassium chloride**
 - and action potential, 180
 - dietary, cardiac mass after excess of, 153
- Potential**
 - action
 - in cardiac muscle, 179
 - and di-isopropyl fluorophosphate, 180
 - and eserine, 180
 - membrane, 173-76
 - and potassium chloride, 180
 - in skeletal muscle, 179
- cardiac, chest distribution of, 201
- intracavity, of human left ventricle, 149
- proximity, of ventricle, 299
- P-R interval**
 - in bundle-branch block, 171
 - and H wave, 79-80
 - short, with wide QRS complex, 622
- Pregnancy**
 - cholesterol in, 103-05
 - coronary artery disease in, 946
 - electrocardiography in, 948
 - German measles during, 939
 - high spinal anesthesia in, 630
 - with subacute bacterial endocarditis, 293
 - toxemia of, constrictions of retinal arteries in, 601
- Pregnanediol**, formation of, from cholesterol, 365
- Preponderance**, electrocardiographic pattern of, 784
- Pressor agent**
 - cerebral, 291
- Pressure**
 - arterial
 - and arteriovenous fistula, 435
 - after intracisternal injection of fibrin, 53
 - after Ro2-2222, 63-72
 - and veratramine, 629
 - atrial, 441
 - and arteriovenous fistula, 435
 - brachial arterial, in spinal anesthesia, 561, 895
 - carotid, and hypertension, 288
 - cerebrospinal
 - and albuminuric retinitis, 602
 - after Ro2-2222, 64
 - coronary sinus, with ligation of circumflex artery, 263-64
 - hepatic vein, in spinal anesthesia, 898
 - intracranial, pressor response to, 787
 - perfusion, and renal function, 625
 - pulmonary, in mitral stenosis, 324-27
 - pulmonary arterial
 - in cor pulmonale, 889
 - after spinal anesthesia, 563
 - pulmonary capillary, 955
 - pulmonary vascular, after intracisternal injection of fibrin, 59
 - right heart, after spinal anesthesia, 568
 - venous
 - and arteriovenous fistula, 435
 - during catheterization, 786
 - after intracisternal injection of fibrin, 54
 - intrarenal, 792
 - and posture, 435
- Pressure pulse**, due to simulated saccular aneurysm, 787
- Priscoline**
 - as vasodilator, 654
 - for vasospasm, 520-28
- Privine**, diuretic effect of, 440
- Procaine**
 - block
 - caudal, as vasodilator, 655
 - for pain relief in myocardial infarction, 784
 - for flutter due to aconitine, 531-32
 - in prolongation of heparin action, 778
- Procaine amide**
 - for auricular fibrillation, 41-50
 - for auricular flutter, 41-50
 - for cardiac arrhythmia, 308
 - chill due to, 629
 - and circulation, 953
 - fatal agranulocytosis due to, 628
 - fever due to, 629
 - intravenous, 307
 - vs. quinidine, for arrhythmia, 304
 - toxicity of, 46-48
 - for transient ventricular fibrillation, 193-99
 - See also Pronestyl
- Proconvertin**, determination of, 614
- Proliferation**, fibroblastic, in coronary arteriosclerosis, 484
- Pronestyl**
 - for auricular fibrillation, 41-50
 - for auricular flutter, 41-50
 - for ectopic rhythm, 437
 - in traumatic heart disease, 424
 - See also Procaine amide
- Propylthiouracil**
 - for angina pectoris, 225
 - for congestive heart failure, 225
- Prostigmine**, 905
- Protamine sulfate**, vasoconstriction due to, 307
- Proteinuria**, 290
- Prothrombin**
 - determination of, 614
 - after phenylindanedione, 516-17
- Prothrombin time**
 - and dicumarol, 260, 495-97, 501
 - in myocardial infarction, 142
 - and Tromexan, 494-97, 501
- Prothrombin utilization test**, in angioorganopathy, 426
- Protoveratrine**
 - continuous intravenous, 217-18
 - and digitoxin, 216
 - for hypertension, 212-21
 - intracisternal, 58
 - intramuscular, 218
 - intravenous, for hypertension, 151
 - oral, 219-20
 - toxicity of, 216
- Psychoneurosis**, as contraindication to sympathectomy, 139
- Pulmonary artery**
 - diastolic pressure, 955
 - embolism, 768-76
 - hypertensive, and persistent patency of the ductus arteriosus, 938
 - ligation of, bronchial arteries in, 152
 - occlusion of, 795
 - anoxia due to, 296
 - in pulmonic valvulotomy, 966
 - pressure, 880

- Pulmonary artery** (*Cont'd*)
 after closure of patent ductus arteriosus, 121
 in cor pulmonale, 889
 in mitral stenosis, 324-27
 stenotic, 155, 935-36
 in Taussig-Bing malformation, 936
 thickening of, 952
 thrombosis of, 794
 in transposition of great vessels, 936-37
- Pulmonary conus**, 934
- Pulmonary vein**
 anomalous drainage of, 801-15
 occlusion of, 795
 transposition of, 294
- Pulse**
 abdominal aortic, and coarctation of aorta, 941
 in aortic stenosis, 818
 in patent ductus arteriosus, 115
 in subaortic stenosis, 819
- Pulse pressure**
 in patent ductus arteriosus, 115
 and posture, 434-35
- Pulse rate**
 after Ro2-2222, 66
- Pulse rate**, due to SKF 688A, 355
- Pulse volume**, after spinal anesthesia, 563
- Pupil**, response of, after SKF 688A, 355-56
- Pyelonephritis**, and hypertension, 606-07
- Pyribenzamine**, and Mersalazine, 246
- Pyrogen**, for arterial hypertension, 150
- Q_s deflection**, in myocardial infarction, 298
- Q wave**
 deep, in lead III, 949
 in pulmonary embolism, 772
- Q-I interval**, 390, 397
- Q-J interval**, 390, 398
- Q-J/Q-I ratio**, 390
- qR pattern**, Wilson's explanation of, 430
- QRS axis**, and age of patient, 754-55
- QRS complex**
 and depolarization of ventricular fiber, 179
 isoelectric beginning of, 379
 in pulmonary embolism, 772
 wide, with short P-R interval, 622
- QRS vector**, in neurovegetative imbalance, 148
- Q-T interval**, 786
 and digitalis, 172
 after exercise, 149
 in exercise, 190
 and h-L interval, 589
 measurement of, 378-87
 after procaine amide, 46
 prolongation of, 145
- Q-T_e interval**, and exercise, 184, 186-87
- Q-T/T-Q ratio**, 184-87, 190
- Quinidine**, 839
 for auricular fibrillation, 306, 627, 790
- for flutter, 627
 due to aconitine, 531-32
 vs. procaine amide
 for arrhythmia, 304
 for auricular fibrillation, 48
 for auricular flutter, 48
 in traumatic heart disease, 424
 vasomotor action of, 630
- R wave**
 discrepancy type, 949
 and exercise, 184
- Rabbit**
 cholesterol atherosclerosis in, 464
 cholesterol fed, aureomycin in, 470
 digitoxin in, 369, 662, 664
 hypercholesterolemia in, 465
 prevention of, 459
 after intracasternal injection of fibrin, 52-54
- Radiiodine**
 for angina pectoris, 225-28
 in determination of cardiac output, 572
 for heart disease, 225-36
 metabolism of, 786
- Rat**
 cardiac mass in, after excess dietary potassium chloride, 153
 digitoxin in, 368-69, 662, 663, 851-52
 hypertensive
 and dietary potassium, 433
 nephrectomized parabiotic, 432
- Rate**, ventricular, after procaine amide, 45, 49
- Raynaud's disease**, dibenamine for, 440
- Real post-tachycardial syndrome**, vs. coronary insufficiency, 145
- Recosen**, 628
- Rectum**, temperature of, 865
- Red blood cell**, and cholesterol, 364
- Reflex system**, Bezold, 288
- Regitine**, 953
 as test in hypertension, 151
 for vasospasm, 520-28
- Regurgitation**, mitral, atrial border electrokymography in, 96-101
- Relaxation**, ventricular, 177
- Renal artery**
 atheroma of, in Kimmelstiel-Wilson syndrome, 952
 blood pressure in, 625
 occlusion of, malignant hypertension with, 624
- Renal vein**, catheterization of, 951
- Renin**, 469
 in hypertension, 290
 vascular lesions due to, 469
- Reoxygenation**, ventricular fibrillation of, 621
- Repolarization**
 and cardiac cycle length, 544
 after digitalis, 180
 of membrane, 173-75
- Resection**, of aneurysm of descending aorta, 443
- Residual volume**, of blood in right ventricle, 302
- Resin**, cation-exchange, 304, 428, 617
- Resistance**
 arteriolar, 955
 in essential hypertension, 286
 alternating current, in pulmonary edema, 675-76
 electrical, of tissue, 28
 peripheral, after spinal anesthesia, 565, 568
 pulmonary, 629, 880, 955
 renal, in essential hypertension, 300
- Respiration**
 artificial, for toxicity of Etamon, 907
 and blood pressure variations, 553-58
 after spinal anesthesia, 567
 and systolic force, 394
 of tissue, 437
- Resting potential**, membrane, 173, 176
- Retinal artery**, 601
- Retinitis**
 albuminuric, pathogenesis of, 600-03
 arteriosclerotic, 601
- Rheumatic fever**, 778, 955
 ACTH for, 442
 after commissurotomy for mitral stenosis, 329
 cortisone for, 955
 genetics of, 955
 3 - hydroxy - 2 - phenylethanoic acid for, 439-40
- Rhythmicity**, cardiac
 ectopic, pronestyl for, 437
 and epinephrine, 238-43
 and isopropyl norepinephrine, 238-43
 and norepinephrine, 238-43
- Rice diet**, 135
 for hypertension, 150
- Ring**, vascular, 931-32
- Ro 2-2222**
 arterial pressure after, 63-72
 cerebrospinal fluid pressure after, 64
 clotting time after, 71
 after intracasternal injection of fibrin, 55
 in surgery, 71
 toxicity of, 66-67, 71
- Rocking bed**, Saunders, 648
- Roentgenology**
 of acute pulmonary edema, 442
 in coronary artery calcification, 144
 in pulmonary embolism, 772
- Roniacol**
 circulatory effects of, 90-95
 for vasospasm, 520-28
- rS pattern**, Wilson's explanation of, 430
- RS-T segment**
 and digitalis, 172
 displacement of, 180
 after procaine amide, 194
- R-T junction**, deviation of, 180
- Rupture**
 of aortic valve, non-traumatic, 304

- cardiac, 424
 spontaneous, 334-47
 of chordae tendineae, 422, 423
 of intimal capillaries, 733
 of mitral valve, 423
 pericardial, 422
 septal, 345
- S wave**, and exercise, 184
- Saline solution**, as diuretic agent, 438
- Salmine**, 307
- Salt depletion syndrome**, 944
- Salt solution**, as diuretic agent, 438
- Sarcoidosis**, 951
- Saunders rocking bed**, 648
- Scarlet fever**, myocarditis in, 154
- Schultz test**, digitonine precipitation in, 462
- Sciatic nerve**, of frog, 180
- Sclerosis**
 coronary, and pulmonary hypertension, 145
 pulmonary vascular, 794
- Sella turcica**
 in angina pectoris, 300
 in hypertension, 300
- Sensitivity**, to Mercurhydrin, 245-48
- Septum**
 auricular defect, 932-33, 943
 interventricular, rupture of, 345
 ventricular
 defect of, 933
 defect of, vs. patent ductus arteriosus, 115, 120
 excitatory process in, 161-71
- Serum**
 albumin in, for cerebral edema after cardiac arrest, 789
 cholesterol in
 in atherosclerosis, 473, 478
 in coronary artery disease, 472
 dietary, 364, 458
 during pregnancy, 103-05
 iodinated albumin in, in determination of cardiac output, 572-76
 lipid in, 456
 effect of brain extract on, 458
 lipoprotein in, endocrine influences of, 460
 mucoprotein in, heparinoid nature of, 305
 phospholipid in
 in atherosclerosis, 473
 effect of choline on, in coronary artery disease, 472
 effect of estrogen on, 478
 potassium in
 and blood pressure, 371-72
 sodium in, in Mercurhydrin hypersensitivity, 245
 vascular reaction to, effect of cortisone on, 305
- Serum lability test**, in diagnosis of endocarditis lenta, 293
- Sex (of patient)**
 and spontaneous cardiac rupture, 338, 344
 and susceptibility to coronary atherosclerosis, 278
- Shock**
 hemorrhagic, 791, 953
 in myocardial infarction, 618
 therapeutic, in penicillin-treated cardiovascular syphilis, 274
- Shunt**
 left-to-right, 943
 venoarterial, through over-riding aorta, 106-09
- Silicosis**, khellin for, 306
- Silver nitrate**, in demonstration of pathologic changes of endothelium, 463
- Sinus rhythm**
 and epinephrine, 241-42
 in mitral stenosis, 324
 and norepinephrine, 241-42
 isopropyl, 241-42
 due to procaine amide for auricular fibrillation, 43
- Situs inversus**
 dextrocardia without, 938
 with levocardia, 938
- SKF 688A**, 352-58
- Skin**
 blood volume in, 631
 color of, 649-50
 histamine reaction in, 645-47
 temperature of, 862-67
 and muscular circulation, 90
 in myocardial infarction, 144
 after Ro 2-2222, 64-65
- Smoking**
 angina after, 309
 and blood flow through hand, 301
 in obstructive vascular disease, 654
- Sodium**
 depletion of, in hypertension, 301
 excretion of
 and blood pressure, 919-23
 and cardiac output, 153
 after compression of legs, 911-17
 after compression of neck, 916
 after vasopressin, 435
 and hypertension, 289
 and posterior pituitary extract, 440
 and pressor effects
 of desoxycorticosterone, 373-76
 of epinephrine, 373-76
 of norepinephrine, 373-76
 in serum, in Mercurhydrin hypersensitivity, 245
- Sodium benzoate**, for toxicity of Etamon, 907
- Sodium chloride**, external, and injury potentials of cardiac muscle, 154
- Sodium nitrate**, 839
 and interarterial coronary anastomosis, 838, 840
- Soffer test**, in essential hypertension, 950
- Somatotype**, and heart shape, 310
- Sounds**, cardiac
 diastolic, 954
 first, 790, 954
 in patent ductus arteriosus, 115
- Spasm**, arterial
 coronary, 839
 traumatic, 950
- Sphygmography**, femoral, and ballistocardiography, 589
- Spinal anesthesia**
 hemodynamic changes in, 559-70, 894-900
 after intracisternal injection of fibrin, 57
 peripheral vasodilation due to, 69
 in pregnancy, 630
- Spine**, dorsal, in osteitis deformans, 715
- Splanchnicectomy**
 for essential hypertension, 137-38
 thoracolumbar, 623
- Spleen**
 oxygen consumption, in spinal anesthesia, 898
 vascular resistance, in spinal anesthesia, 898-900
- Squirrel**, clotting time in, 142
- S-T segment**
 after amyl nitrate, 251
 and exercise, 187-88
- Standstill**, cardiac, 633, 954
 cerebral edema after, 789
 Isuprel for, 239
 norepinephrine for, 238-39
 ventricular
 postfibrillary, 198
 after procaine amide, 195, 197
- Steam**, inhalation of, respiratory burns due to, 666-79
- Stenosis**
 aortic, vs. congenital subaortic, 817-23
 mitral, 789
 commissurotomy for, 321-32, 444
 embolus in, 323
 with exertional cyanosis, 868-73
 hypertension in, 149, 150
 and insufficiency, 702-04
 in rheumatic heart disease, 690-705
 surgery for, 793
 thrombus in, 323
 pulmonary, 935
 arterial oxygen saturation in, 745
 blood volume after operation for, 427
 isolated, 155
 with normal aortic root, 781
 and tetralogy of Fallot, 427, 780
 subaortic, congenital, 817-23
 tricuspid, relative, 310
- Sternum**, deformity of, 956
- Steroid**, adrenal, 478
- Strain**, right ventricular, electrocardiography in, 145, 149
- Streptococcus viridans**, 613
- Stress**, cardiovascular
 in endocarditis, 293
 in glomerulonephritis, 293
- Stroke volume**
 respiratory modulation of, 555
 after spinal anesthesia, 561

- Strophanthin**, 180, 309
Subclavian artery
 in coarctation of aorta, 632, 633
 right, aberrant, 632
Sucrose, for measurement of extracellular fluid, 625
Sulfhydryl compound, as antihypertensive, 300
Surgery
 anesthesia for, in congenital heart disease, 780
 for coronary artery disease, 618
 for mitral stenosis, 321-32, 793
 for myocardial infarction, 618
 pulmonary, function tests in, 626
 respiratory acidosis during, 443
 for ventricular fibrillation, 444
Sweating, deficiency of, with impotence and orthostatic hypotension, 30-38
Sympathectomy
 circulation in forearm after, 434
 for essential hypertension, 131-40
 for hypertensive headache, 138
 intracisternal injection of fibrin after, 56
 lumbar, for arteriosclerosis obliterans, 794
 as vasodilator, 654-55
Sympathetic nervous system
 blockade of, by TEAC, 288
 and SKF 688A, 352-58
Synergism, antibiotic, 789
Syphilis
 cardiovascular, 945
 coronary insufficiency after penicillin for, 296
 penicillin-treated, 267-75, 439
Systole
 atrial, electrokymographic curve in, 98
 electrical, 786
 duration of, 149
 and h-L interval, 589
 membrane potential during, 173
 ventricular
 and H-L interval, 591
 and intra-atrial pressure, 441
Systolic force, 391
 and diuresis, 396
 and respiration, 393-94
T-1824, 625
T vector, in neurovegetative imbalance, 148
T wave
 after amyl nitrate, 251
 in aneurysm with syphilitic aortic insufficiency, 271
 changes in, 180
 and exercise, 184, 187
 in injury to sub-endocardial myocardium, 191
 isoelectric end of, 379
 merging of, with U wave, 379-86
 notched, upright, 949
 postextrasystolic changes in, 538-47
 after procaine amide, 194
 in pulmonary embolism, 772
 in syphilitic aortitis, penicillin-treated, 269
 in syphilitic aortic insufficiency, 270
Tachycardia, 953
 in hyperthyroidism, 224
 paroxysmal vs. auricular flutter, 296
 electrocardiographic patterns in, 145
 pronestyl for, 437
 in pulmonary embolism, 771
 reflex, in syndrome of orthostatic hypotension, anhidrosis and impotence, 37
 due to SKF 688A, 355
 ventricular, with retrograde conduction, 298
Tachyphylaxis, after Ro 2-2222, 64, 71
Taussig-Bing malformation, 936
TEAC, blockade of sympathetic ganglia by, 288
Temperature
 and action potential, 174
 atmospheric and congestive heart failure, 616
 of blood, after tracheal steam inhalation, 667-68
 of body, in hyperthyroidism, 223
 of skin, 862-67
 in angina pectoris, 144
 and muscular circulation, 90
 in myocardial infarction, 144
 after Ro 2-2222, 64-65
 of toe
 and SKF 688A, 355, 357
Tension, as contraindication to sympathectomy, 139
Terramycin, and anticoagulant, 507-09
Testosterone, and estrogen-induced inhibition of coronary atherogenesis, 474
Tetany, hypokalemic alkalosis with, 952
Tetraethylammonium, 71
 in ganglionic transmission, 287
 ion, toxicity of, 902-10
Tetralogy of Fallot, 615, 934-35
 aortic-pulmonary anastomosis in, 143
 arterial oxygen saturation in, 744-46
 and pulmonary stenosis, 427, 780
Theophylline
 as diuretic agent, 438
 sodium, and Mercuhydrin hypersensitivity, 247
Thiamine, and circulation, 627
Thigh, temperature of, 865
Thiomerin, 246
Thiophanum. See Ro 2-2222
Thiourea
 alpha-naphthyl, pulmonary edema due to, 783
 for angina pectoris, 225
 for congestive heart failure, 225
Thoracotomy, exploratory, in patent ductus arteriosus, 122
Thrombin, inhibition of, by thromboplastin, 142
Thromboangiitis obliterans, therapy of, 648
Thromboembolism
 dicumarol for, 489-513
 in myocardial infarction, 1-6, 7-14, 260
 Tromexan for, 489-513
Thrombopenic purpura, after digitoxin, 630
Thrombophlebitis, 499, 769
Thromboplastin, thrombin-inhibitory effect of, 142
Thrombosis
 coronary
 in diabetes mellitus, 946
 second, 13
 of internal carotid artery, 631, 632
 intracardiac mural, 1-6
 leukocyte-platelet, 631
 in occlusion of aorta, 957
 pre-existent, coronary embolism due to, 957
 venous, 499
 heparin-gelatin-dextrose for, 614
 of leg, 12
Thrombus
 coronary, initiation of, 735-37
 in mitral stenosis, 323
 mural
 intracardiac, 1-6
 in spontaneous cardiac rupture, 336
Thyroid gland
 adenomata of, and I¹³¹, 233
 and the heart, 222-36
Thyroidectomy, total
 coronary arteriosclerosis after, 234
 medical, 225-26
 surgical, 225, 234
Tincture of iodine, 657
Tissue
 animal, digitoxin in, 367-70
 elastic, in arteriosclerotic lesion, 788
 electrical resistance of, 28
 impedance of, 419
 respiration of, 437
Tobacco
 angina after, 309
 and blood flow through hand, 301
 in obstructive vascular disease, 654
Toe, temperature of, 863-64, 866
 and SKF 688A, 355, 357
Tonsillitis, hemolytic, myocarditis in, 154
Toxemia of pregnancy, constrictions of retinal arteries in, 601
Toxicity
 of I¹³¹ for heart disease, 230-31
 of tetraethyl ammonium ion, 902-10
Trachea, and vascular ring, 931-32
Transfusion
 in heart disease, 789
 intra-arterial
 for hypotension, 625
 for shock in myocardial infarction, 618

- Transposition**
 of pulmonary veins 294
 of great vessels, 936-37
- Traube oscillator**, 557
- Traube waves**, 553
- Trauma**, peripheral, due to cold, 469
- Tricuspid valve**
 atretic, 935
 Ebstein's anomaly of
 arterial oxygen saturation in, 745-46
 diagnosed during life, 779-80
 findings in, 779
 insufficiency of, in rheumatic heart disease, 706
 stenosis of, 310
- Tripeleminamine hydrochloride**, and Mercuhydrin, 246
- Tritium**, dietary cholesterol labeled with, 359-66
- Tromexan**
 for cardiac angina, 506-07
 vs. dicumarol, for thromboembolism, 489-513
 hemorrhage due to, 426, 502-06
 hypoprothrombinemia due to, 941
 pharmacology of, 294
- Truncus arteriosus**, 937-38
- Tuberculosis**, pulmonary, vascular changes in, 437
- Tumor**, mouse, 304
- Turtle**, injury potential of cardiac muscle of, 154
- Two-step test**
 Master, and postextrasystolic T-wave changes, 543
 modified double, electrocardiography in, 183-91
- Typhoid vaccine**, for vasodilatation, 651
- U wave**, 547
 merging of, with T wave, 379-86
- Ulcer**, duodenal, as contraindication to sympathectomy, 140
- Ultra-violet ray**, effect of, on plasma clotting, 141
- Urea**,
 in blood, in Mercuhydrin hypersensitivity, 245
 as diuretic agent, 438
- Urine**
 excretion of digitoxin in, 853-57
 urobilinogen in, after myocardial infarction, 925-29
- Urobilinogen**, urinary, after myocardial infarction, 925-29
- Urticaria**, and electrocardiographic changes simulating myocardial infarction, 784
- Vagotomy**
 and aortic occlusion, 58
 for elevated left auricular pressure, 55
 intracasternal injection of fibrin after, 56
- Valve**
 aortic
 homograft, 956
 rupture of, 304
 syphilitic insufficiency of, 269-74
 trauma to, 422
See also Mitral; Tricuspid
- Valvulotomy**, pulmonic, 956
- Varix**, esophageal, blood pressure in, 152
- Vasa vasorum**, of arteries, 463
- Vascular bed**, pulmonary, and hypertension, 122
- Vascular disease**
 in hypercholesterolemic rabbit, 465
 hypertensive, 299
 bulbar conjunctiva in, 301
 obstructive, 643-58
 peripheral
 drugs for, 520-28
 Hydrergin for, 308
- Vascular ring**, 931-32
- Vascularity of bone**, in osteitis deformans, 712-13
- Vasoconstriction**
 due to epinephrine, 307
 hemometakinesia, 652-53
 due to histamine, 307
 due to pitressin, 307
 due to protamine sulfate, 307
 in syndrome of orthostatic hypotension, anhidrosis and impotence, 36
- Vasodepressor material**, 290, 291
- Vasododilatation**
 due to dioxylane phosphate, 125
 hemometakinesia, 652-53
 peripheral, for acute pulmonary edema, 69, 70, 72
 postprandial, 654
 reflex, 654
 surgical, 654-55
- Vasoexcitor material**, 290
- Vasopressin**, 435, 791
 and interarterial coronary anastomosis, 838
 and spontaneous cardiac rupture, 341
- Vasopressor**, for syndrome of orthostatic hypotension, anhidrosis and impotence, 36
- Vasospasm**, drugs for, 520-28
- VDM**, 290, 291
- Vectorcardiography**, 942
 frontal, 785
 of isolated heart, 162-65
 in neurovegetative imbalance, 148
 and precordial lead, 299
 in right bundle branch block, 430
 spatial, origin of, 948
- Vegetative nervous system**, and Wolff - Parkinson - White syndrome, 297
- Vein**
 femoral, occlusion of, 281-84
 hepatic, in spinal anesthesia, 895, 898
 ligation of, for pulmonary embolism, 775
 lobar, occlusion of, 795
 pulmonary, 795
 anomalous drainage of, 801-15
 transposition of, 294
 renal, 951
 thrombus in, of leg, 12
- VEM**, 290
- Vena cava**, ligation of, for heart failure, 781, 782
- Ventilation**, pulmonary, in chronic lung disease, 879
- Ventricle**
 asynchronism, 579
 ballistic waves of, 79
 bundle branch in activation of, 168-69
 contraction of, 177-78
 ejection by, and J wave, 590-91
 failure, and renal excretion of digitoxin, 855-56
 fibrillation of, procaine amide for, 193-99
 filling of, 556
 of frog, effect of cardiac glycoside on, 172-81
 hypoplasia of, with congenital tricuspid atresia, 442
- left**
 depth of, 828
 electrokymogram of, 792
 hypertrophy of, 147
 intracavity potential of, 149
 after intracasternal injection of fibrin, 53
 in mitral stenosis, 324
 after spinal anesthesia, 565, 569
 subendocardial infarction of, 299
 thickness of, 828
 mural thrombi in, 1-6, 12
 premature beat, in exercise, 187
 proximity potential of, 299
 rhythm of, after procaine amide, 194-99
- right**
 electrocardiography in strain of, 149
 hypertrophy of, 146
 hypertrophy of, in congenital heart disease, 296, 941
 infarction of, 593-97
 residual volume of blood in, 302
 strain, 145
 septum of
 defect of, vs. patent ductus arteriosus, 115, 120
 excitatory process in, 161-71
- Ventricular-excitability curve**, 310
- Veratramine**, 628
- Veriloid**, for arterial hypertension, 624
- Vertigo**, postural, with anhidrosis and impotence, 30-38
- Virus**, of encephalomyocarditis, 847-49
- Viscera**, abdominal, inversion of with levocardia, 943
- Vision**, after digitoxin, 438
- Vitamin K**
 for hemorrhage due to anticoagulant, 505
 for hypoprothrombinemia, 941
 production of, by intestinal bacteria, 508
- Vitamin K₁**
 for hypoprothrombinemia, 142

- due to anticoagulant No. 63, 142
 - due to bishydroxycoumarin, 614
- Voltage**, membrane, and digitoxin, 176
- Vomiting**
 - after Ro 2-2222, 66, 71
 - after spinal anesthesia, 566
- Warming**, of body, for vasodilation, 527
- Water**
 - as diuretic agent, 438
 - excretion of
 - and blood pressure, 919-23
 - effect of mercurial diuresis on, 82-88
 - after vasopressin, 435
 - intracellular, 631
 - metabolism of, in edema, 302
 - myocardial, after epinephrine, 153
- Wave**, Traube, 553
- Weakness**, as contraindication to sympathectomy, 139
- Weight**, of body, and electrocardiography, 749, 756-61
- Wenckebach period**, reversed, in ventricular tachycardia, 298
- Wezler-Boeger method**, cardiac output measured by, 153
- Wilson**, Frank Norman, 641-42
- Wilson's system of unipolar leads**, 430
- Wolff-Parkinson-White syndrome**, 297, 622
 - familial type of, 621
 - myocardial infarction in, 429
 - rheumatic mitral stenosis with, 949
- Xanthine**, as diuretic agent, 438
- Yawning**
 - after Ro 2-2222, 66, 71
 - after spinal anesthesia, 566
- Zeo-karb** 225, 304
- Zero point**, of vector-loop, 299
- Zygoma**, temperature, 865